Missouri Pregnancy
Risk Assessment
Monitoring System
(PRAMS)



2007-2008 Data Report



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Introduction

The Pregnancy Risk Assessment Monitoring System (PRAMS) is a collaborative project between the Centers for Disease Control and Prevention (CDC) and state health departments. PRAMS is an ongoing, population-based survey designed to identify and monitor select maternal experiences, attitudes and behaviors that occur before, during and shortly after pregnancy among women delivering a live-born infant. The PRAMS survey provides unique information that may be combined with data from other sources, such as the birth certificate, to obtain a more complete picture of the health and well-being of Missouri infants and mothers. Findings from PRAMS are meant to be used to enhance the understanding of maternal behaviors and their relationship with adverse pregnancy outcomes. PRAMS data may be used to identify high risk groups, monitor trends in health indicators, assist in program planning and assessment, aid in policy development, monitor progress toward state and national goals, and provide information for research of emerging maternal and infant health issues.

PRAMS was initiated in 1987 as part of the CDC effort to reduce infant mortality and low birth weight. In recent years, the program has been expanded in support of CDC's Safe Motherhood Initiative to promote healthy pregnancies and the delivery of healthy infants. Currently, 37 states, New York City and South Dakota (Yankton Sioux tribe) participate in PRAMS. Missouri became a CDC PRAMS state in 2006 and began data collection in 2007. States participating in PRAMS now comprise 75 percent of all U.S. births.

This is the first comprehensive report of results from the 2007-2008 Missouri PRAMS project. This report addresses a variety of topics including, but not limited to pregnancy intention, folic acid consumption and awareness, health insurance, prenatal care, alcohol and tobacco use, violence against women, breastfeeding, postpartum depression, and participation in the Women, Infants and Children Food Supplementation Program (WIC). Healthy People (HP) 2020 is a list of health objectives for the nation that will guide prevention efforts for the next 10 years. A number of PRAMS indicators are consistent with HP 2020 objectives and this allows the comparison of maternal and infant health indicators for Missouri with national objectives.

Methods

Missouri PRAMS collects information on Missouri resident mothers who have recently given birth to a live-born infant. Each month, a stratified random sample of approximately 200 live births is sampled from Missouri's birth certificate files. Women delivering a low birth weight infant (<2500 grams) and those living in rural areas are oversampled to ensure that adequate information is collected on these high-risk subgroups. PRAMS combines two modes of data collection where selected mothers are mailed a PRAMS survey up to three times, and telephone interviewers attempt to reach the mothers who do not respond by mail.

Of the 2,151 women sampled in 2007 for Missouri PRAMS, 1,390 responded for a weighted response rate of 65 percent. However, in 2008, of the 2,145 women sampled for Missouri PRAMS, only 1,351 responded to the survey for a weighted response rate of 63 percent. CDC recommends that states obtain a response rate of at least 65 percent for analysis of PRAMS data. The weighted response rate for 2007 and 2008 combined was 64 percent, slightly below the CDC recommended response rate of 65 percent. This could introduce bias into some estimates for the PRAMS data and caution should be used in the interpretation of results presented in this report.

The survey data are weighted to adjust for the sampling design, nonresponse, and noncoverage so that they are representative of Missouri women with a live birth in 2007-2008. Further information on PRAMS methodology, including weighting procedures, may be found on the CDC website at: www.cdc.gov/PRAMS/methodology.htm.

Highlights

Findings presented below represent combined data from Missouri PRAMS 2007 and 2008.

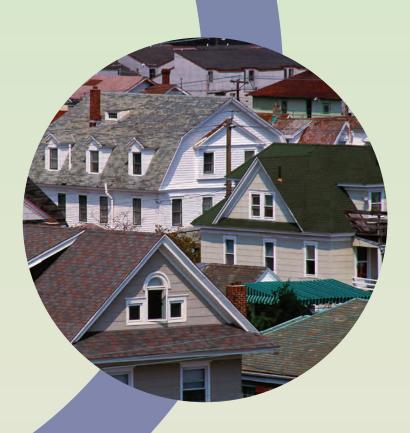
- Just before pregnancy, nearly one in six Missouri women (15.4 percent) reported Medicaid health coverage, and nearly one-third (30.7 percent) had no health insurance.
- Nearly half (45.2 percent) of live births in Missouri during 2007-2008 were from unintended pregnancy.
- More than half of women (58.4 percent) did not take a multivitamin or prenatal vitamin before pregnancy.
- Approximately one in five women was obese (22 percent) just before pregnancy.
- Nearly one in seven women (13.2 percent) did not receive prenatal care during the first trimester.
- Five percent of women were physically abused during pregnancy.
- Seven percent of women reported having a sexually transmitted infection (STI). The most commonly reported STI was Chlamydia (2.9 percent).
- About one in four women (27.7 percent) did not initiate breastfeeding, and nearly 40 percent of women who initiated breastfeeding stopped before two months.
- Nearly one-third of women (30.7 percent) placed their infants to sleep on their side or stomach and almost one in four (22.5 percent) reported co-sleeping with their infants.
- Twenty percent of women smoked during the last three months of pregnancy.
- Nearly 6 percent (5.8 percent) of women consumed alcohol during the last three months of pregnancy.
- Approximately one in seven women (14 percent) had symptoms of postpartum depression.
- Nearly two-thirds (63.9 percent) of women did not receive dental care during pregnancy and nearly one-third (29.5 percent) reported needing to see a dentist during pregnancy.

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1. U.S. Department of Health and Human Services. Healthy People 2020. 2010; http://www.healthypeople.gov/2020/. Accessed December 7, 2010.



Section 1. Socio-demographic Characteristics



Distribution of Select Maternal Characteristics

Maternal Characteristics	Percent	95% Conf Interval				
Age (Years)						
<20	12.1	10.4	13.7			
20-29	57.8	55.5	60.1			
30+	30.1	28.0	32.2			
Education Level						
Less than High School	18.9	16.8	20.9			
High School or Higher	81.1	79.1	83.2			
Race/Ethnicity						
Non-Hispanic White	79.3	77.2	81.3			
Non-Hispanic Black	14.2	12.3	16.0			
Hispanic	3.9	2.8	4.9			
Other	2.7	2.0	3.4			
Marital Status						
Married	59.7	57.4	62.1			
Unmarried	40.3	37.9	42.6			
Residence						
Urban	73.7	73.4	74.1			
Rural	26.3	25.9	26.6			
Prepregnancy Health Insurance Status*						
Private Insurance	53.8	51.5	56.2			
Medicaid	15.4	13.6	17.3			
No Insurance	30.7	28.6	32.9			
Prenatal Care Payer**						
Private Insurance	47.9	45.6	50.3			
Medicaid	49.4	47.0	51.7			
Self Pay or Other	2.7	2.0	3.4			
Delivery Payer**						
Private Insurance	46.5	44.2	48.8			
Medicaid	50.8	48.5	53.1			
Self Pay or Other	2.7	2.0	3.4			

^{*} DEFINITION for prepregnancy health insurance: Women who answered "Yes" to Question 2: "Just before you got pregnant, were you on Medicaid?" were classified as having Medicaid; the rest of women who answered "Yes" to Question 1: "Just before you got pregnant, did you have health insurance? Do not count Medicaid." were classified as having private insurance; then the rest who answered "No" to Question 1 were classified as having no health insurance.

^{**} DEFINITION for prenatal care payer (Question 23)/delivery payer (Question 48): Women who checked "Medicaid" were classified as having Medicaid; the rest of women who checked "Health insurance or HMO" were classified as having private

insurance; those who checked either "Personal income" or "Other" were classified as self-pay or other.

NOTE. Questions 23 and 48 allow the respondent to choose multiple answers. Therefore the category "Medicaid" may include Medicaid only or Medicaid plus other payment sources. Similarly the category "Private Insurance" may include private insurance only or private insurance plus self-pay or other.

The majority of infants born in Missouri during 2007 and 2008 were to women who were aged 20-29 years, at least high school educated, Non-Hispanic White, married and living in urban areas. Only 15.4 percent of women had Medicaid before pregnancy, but approximately 50 percent reported Medicaid as the payer for their prenatal care or delivery. Nearly one-third of women (30.7 percent) had no health insurance before pregnancy.



Section 2. Prepregnancy



Unintended Pregnancy

Survey Question 11

Percent of women with unintended pregnancy

Maternal Characteristics	Percent	95% (CI
Overall	45.2	42.9	47.6
Age (Years)			
<20	78.8	73.6	84.0
20-29	46.1	43.1	49.2
30+	29.9	25.9	33.9
Education Level			
Less than High School	60.4	54.2	66.6
High School or Higher	41.7	39.2	44.2
Race/Ethnicity			
Non-Hispanic White	41.3	38.8	43.8
Non-Hispanic Black	67.5	60.6	74.4
Hispanic	46.2	32.3	60.1
Other	41.2	28.1	54.4
Marital Status			
Married	29.0	26.3	31.6
Unmarried	69.5	65.9	73.2
Residence			
Urban	45.0	42.1	48.0
Rural	45.8	42.2	49.3
Prepregnancy Health			
Insurance Status			
Private Insurance	32.5	29.6	35.4
Medicaid	62.6	56.2	68.9
No Insurance	58.8	54.7	63.0

DEFINITION. Unintended pregnancy is defined as either response "I wanted to be pregnant later" or response "I didn't want to be pregnant then or at any time in the future" to Question 11: "Thinking back to *just before* you got pregnant with your *new* baby, how did you feel about becoming pregnant?"

Decreasing the proportion of unintended pregnancies to 44 percent is one of the Healthy People (HP) 2020 objectives. The proportion of unintended pregnancies in Missouri for 2007-2008 was 45.2 percent, close to the HP 2020 objective. The percentages of unintended pregnancies were higher among women who were aged <20 years, less than high school educated, Non-Hispanic Black, unmarried and covered by Medicaid before pregnancy.

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No Birth Control Use among Women with Unintended Pregnancy

Survey Questions 11 & 14

Percent of women with an unintended pregnancy who reported not using birth control at the time of conception

Maternal Characteristics	Percent	95% (CI
Overall	49.3	45.5	53.1
Age (Years)			
<20	47.4	38.5	56.4
20-29	50.2	45.4	55
30+	48.6	40.1	57.2
Education Level			
Less than High School	62.1	53.6	69.9
High School or Higher	44.5	40.4	48.7
Race/Ethnicity			
Non-Hispanic White	49.3	45.5	53.1
Non-Hispanic Black	52.5	43.2	61.6
Hispanic	-	-	-
Other	-	-	-
Marital Status			
Married	43.6	37.9	49.5
Unmarried	52.5	47.5	57.4
Residence			
Urban	50.8	46	55.5
Rural	45.4	39.9	50.9
Prepregnancy Health			
Insurance Status			
Private Insurance	43.6	37.8	49.6
Medicaid	53.4	44.4	62.1
No Insurance	52.4	46.6	58.2

DEFINITION. Not using birth control at the time of conception is defined as response "No" to Question 14: "When you got pregnant with your new baby, were you or your husband or partner doing anything to keep from getting pregnant?" Unintended pregnancy is defined as response "I wanted to be pregnant later" or "I didn't want to be pregnant then or at any time in the future" to Question 11: "Thinking back to just before you got pregnant with your new baby, how did you feel about becoming pregnant?" and response "No" to Question 13: "When you got pregnant with your new baby, were you trying to get pregnant?"

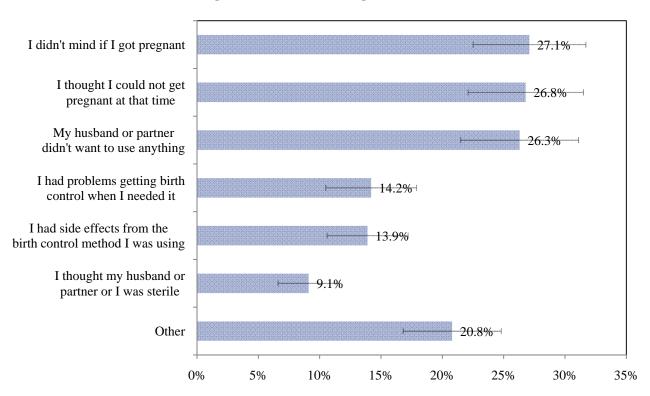
NOTE. "-" not reported for unweighted sample size of denominator less than 42.

Among women reporting an unintended pregnancy, 49.3 percent were not using any type of contraception. Women who were unmarried, had less than a high school education and those with Medicaid or no insurance before pregnancy were less likely to use contraception than their counterparts.

Reasons for No Birth Control Use Among Unintended Pregnancies

Survey Question 15

Percent of women with an unintended pregnancy who gave the following reasons for not using birth control



NOTE. Unintended pregnancy is defined as response "I wanted to be pregnant later" or "I didn't want to be pregnant then or at any time in the future" to Question 11: "Thinking back to *just before* you got pregnant with your *new* baby, how did you feel about becoming pregnant?" and response "No" to Question 13: "When you got pregnant with your new baby, were you trying to get pregnant?"

NOTE. Women were able to choose more than one response to this question.

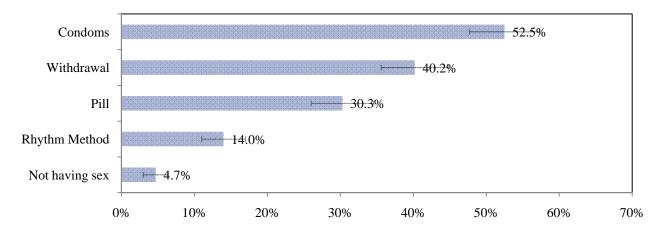
Missouri Mothers Say:

"[I] did not have health insurance and could not afford birth control pills."

Type of Birth Control Used Before Pregnancy

Survey Question 16

Percent of women who reported using the following types of birth control before pregnancy



NOTE. Only the five methods with the highest percentages are depicted here.

NOTE. Women were able to choose more than one response to this question.



Treatment to Assist With Conception

Survey Question 17

Percent of women trying to get pregnant who reported receiving treatment to assist with conception

Maternal Characteristics	Percent	95% C	:I
Overall	9.3	7.4	11.2
Age (Years)			
<20	4.7	0.0	13.6
20-29	5.6	3.7	7.5
30+	15.1	11.3	18.9
Education Level			
Less than High School	4.5	1.0	8.0
High School or Higher	9.8	7.8	11.9
Race/Ethnicity			
Non-Hispanic White	9.1	7.1	11.1
Non-Hispanic Black	12.3	1.5	23.2
Hispanic	5.2	0.0	11.2
Other	13.8	1.1	26.6
Marital Status			
Married	10.0	7.8	12.2
Unmarried	6.2	2.2	10.2
Residence			
Urban	9.1	6.8	11.4
Rural	10.0	6.8	13.1
Prepregnancy Health			
Insurance Status			
Private Insurance	10.7	8.3	13.1
Medicaid	10.9	3.2	18.7
No Insurance	3.9	1.4	6.4

DEFINITION. Receiving treatment to assist with conception is defined as response "Yes" to Question 17: "Did you receive treatment from a doctor, nurse or other health care worker to help you get pregnant with your new baby?"

The percentage of women who received treatment to assist with conception was 9.3 percent. Compared to younger women, those aged ≥30 years were three times more likely to receive treatment. Married women, those with at least a high school education, Non-Hispanics and women with private insurance or Medicaid were more likely to receive treatment to assist with conception compared to their counterparts.

Multivitamin Use Before Pregnancy

Survey Question 3

Percent of women not taking a multivitamin before pregnancy

Maternal Characteristics	Percent	95%	CI
Overall	58.4	56.1	60.7
Age (Years)			
<20	78.0	71.9	84.1
20-29	63.2	60.3	66.1
30+	41.3	37.1	45.5
Education Level			
Less than High School	74.4	68.8	80.0
High School or Higher	54.7	52.3	57.2
Race/Ethnicity			
Non-Hispanic White	56.7	54.2	59.1
Non-Hispanic Black	72.0	65.4	78.6
Hispanic	55.4	41.9	69.0
Other	43.8	30.6	56.9
Marital Status			
Married	45.5	42.7	48.4
Unmarried	77.4	74.2	80.7
Residence			
Urban	57.3	54.5	60.2
Rural	61.4	58.0	64.8
Prepregnancy Health			
Insurance Status			
Private Insurance	46.1	43.0	49.1
Medicaid	69.1	63.0	75.3
No Insurance	74.8	71.2	78.4

DEFINITION. No multivitamin use before pregnancy is defined as response "I didn't take a multivitamin or prenatal vitamin at all" to Question 3: "During the *month before* you got pregnant with your new baby, how many times a week did you take a multivitamin or a prenatal vitamin?"

Reducing the proportion of women who do not take daily multivitamins/folic acid before pregnancy to 66.9 percent is a HP 2020 objective. Recommended folic acid consumption can prevent 50-70 percent of neural tube defects. Over half of Missouri women (58.4 percent) did not take a multivitamin or prenatal vitamin at all before pregnancy. Folic acid consumption rates were lower among women who were aged <20 years, less than high school educated, Non-Hispanic Black, unmarried, living in rural areas and covered by Medicaid or without insurance.

Missouri Mothers Say:

"My baby has spina bifida 1 + hydrocephalus. I wish I would have taken folic acid before I got pregnant. It may have helped her."

Prepregnancy Underweight

Survey Questions 5 and 6

Percent of women underweight before pregnancy

Maternal Characteristics	Percent	95% C	CI
Overall	4.5	3.5	5.6
Age (Years)			
<20	7.9	3.9	11.9
20-29	5.0	3.6	6.5
30+	2.2	1.1	3.4
Education Level			
Less than High School	8.3	4.6	11.9
High School or Higher	3.7	2.7	4.6
Race/Ethnicity			
Non-Hispanic White	4.6	3.5	5.7
Non-Hispanic Black	4.4	1.3	7.5
Hispanic	3.6	0.0	9.0
Other	5.1	0.0	10.8
Marital Status			
Married	4.1	2.9	5.2
Unmarried	5.2	3.4	7.1
Residence			
Urban	4.2	3.0	5.5
Rural	5.4	3.8	7.1
Prepregnancy Health			
Insurance Status			
Private Insurance	3.4	2.3	4.5
Medicaid	7.0	3.5	10.4
No Insurance	5.4	3.3	7.5

DEFINITION. Underweight - Body Mass Index (BMI) less than 18.5 BMI = Weight (kg)/height (m)² or BMI = [weight (lb)/height (in)²] x 703.

The information to calculate BMI was obtained from Question 5: "*Just before* you got pregnant with your new baby, how much did you weigh?" and Question 6: "How tall are you without shoes?"

Prepregnancy weight is an important predictor of adverse pregnancy outcomes. A low body weight before pregnancy is associated with intrauterine growth restriction, low birth weight, preterm labor, spontaneous abortion and delivery of a small for gestational age infant. Only 4.5 percent of women in Missouri were underweight before pregnancy with higher percentages among women with less than a high school education and those without private insurance before pregnancy. The percentage of underweight women tended to be higher with decreasing maternal age.

Prepregnancy Obesity

Survey Questions 5 and 6

Percent of women obese before pregnancy

Maternal Characteristics	Percent	95% (CI
Overall	22.0	20.0	23.9
Age (Years)			
<20	11.1	6.2	16.1
20-29	23.1	20.5	25.7
30+	24.2	20.5	27.9
Education Level			
Less than High School	21.4	15.9	26.8
High School or Higher	22.2	20.1	24.3
Race/Ethnicity			
Non-Hispanic White	20.3	18.3	22.3
Non-Hispanic Black	30.7	23.6	37.8
Hispanic	26.7	13.9	39.4
Other	19.8	9.2	30.4
Marital Status			
Married	22.3	19.9	24.7
Unmarried	21.5	18.2	24.8
Residence			
Urban	21.9	19.5	24.4
Rural	22.0	19.1	24.9
Prepregnancy Health			
Insurance Status			
Private Insurance	20.8	18.3	23.4
Medicaid	20.5	15.0	25.9
No Insurance	24.7	21.0	28.3

DEFINITION. Obesity - BMI 30 or more

Having a BMI \geq 30 before pregnancy is associated with hypertensive disorders, diabetes, delivery of a macrosomic infant, cesarean section, infection, birth defects, fetal mortality, failure to initiate breastfeeding and shorter durations of breastfeeding. There is also evidence that children of obese mothers are at an increased risk for childhood obesity. Overall, 22 percent of Missouri women were obese before pregnancy with higher percentages among Non-Hispanic Black and Hispanic women compared to their counterparts. The prevalence of obesity was almost over two times higher among women aged \geq 20 years than among those aged <20 years.

Missouri Mothers Say:

"I am overweight but lost 20 pounds before I became pregnant and worked with my doctor to eat healthy."

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Section 3. Pregnancy



Late or No Prenatal Care

Survey Question 19

Percent of women with late or no prenatal care

Maternal Characteristics	Percent	95%	CI
Overall	13.2	11.4	14.9
Age (Years)			
<20	21.7	15.5	27.9
20-29	13.4	11.1	15.7
30+	9.4	6.5	12.3
Education Level			
Less than High School	24.3	18.5	30.0
High School or Higher	10.6	8.9	12.3
Race/Ethnicity			
Non-Hispanic White	10.4	8.7	12.1
Non-Hispanic Black	26.4	19.6	33.3
Hispanic	19.7	8.9	30.5
Other	17.4	6.3	28.5
Marital Status			
Married	7.7	6.1	9.3
Unmarried	21.5	18.0	25.0
Residence			
Urban	14.0	11.8	16.3
Rural	10.7	8.5	13.0
Prenatal Care Payer			
Private Insurance	4.2	2.8	5.6
Medicaid	18.2	15.3	21.1
Self Pay or Other	16.1	6.2	26.0

DEFINITION. Women who reported their first prenatal care visit after the first trimester (>3 months or >13 weeks) were classified as having late prenatal care.

Women who answered "I didn't go for prenatal care" were classified as having no prenatal care.

Early prenatal care is important because it provides opportunities for education, risk assessment, and early intervention, if necessary. In Missouri, 13.5 percent of women received late or no prenatal care with higher proportions among women who were aged <20 years, less than high school educated, Non-Hispanic Black, unmarried and covered by Medicaid or self pay or other for prenatal care.

Prenatal Care Not as Early as Wanted among Women with Late or No Prenatal Care

Survey Questions 19 & 20

Percent of women with late or no prenatal care who reported not getting prenatal care as early as they wanted

Maternal Characteristics	Percent	95% (CI
Overall	61.2	53.9	68.0
Age (Years)			
<20	48.8	33.3	64.6
20-29	69.0	60.3	76.6
30+	51.1	35.3	66.7
Education Level			
Less than High School	60.2	46.2	72.7
High School or Higher	61.9	53.4	69.7
Race/Ethnicity			
Non-Hispanic White	61.4	52.6	69.5
Non-Hispanic Black	63.9	48.7	76.8
Hispanic	-	-	-
Other	-	-	-
Marital Status			
Married	61.1	50.1	71.1
Unmarried	61.2	51.7	69.9
Residence			
Urban	62.8	54.1	70.8
Rural	55.0	43.7	65.8
Prenatal Care Payer			
Private Insurance	50.8	33.8	67.6
Medicaid	64.3	55.1	72.6
Self Pay or Other	-	-	-

DEFINITION. Not getting prenatal care as early as wanted is defined as response "No" to Question 20: "Did you get prenatal care as early in your pregnancy as you wanted?"

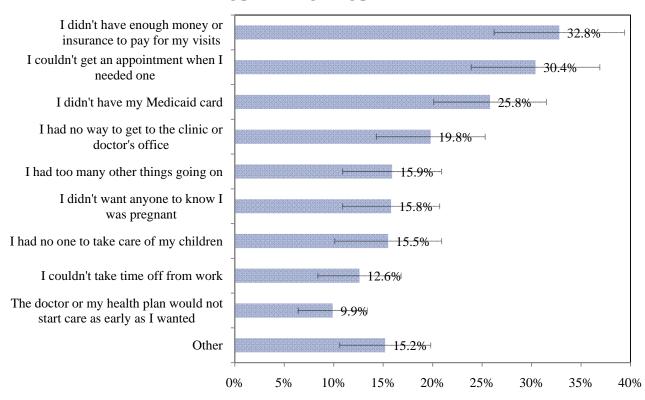
NOTE. "-" not reported for unweighted sample size of denominator less than 42.

More than half (61.2 percent) of women with late or no prenatal care wanted care earlier than it was received with higher proportions among women who were aged 20-29 years, living in urban areas and covered by Medicaid for prenatal care.

Barriers for Getting Prenatal Care

Survey Question 21

Percent of women with late or no prenatal care who reported the following problems getting prenatal care

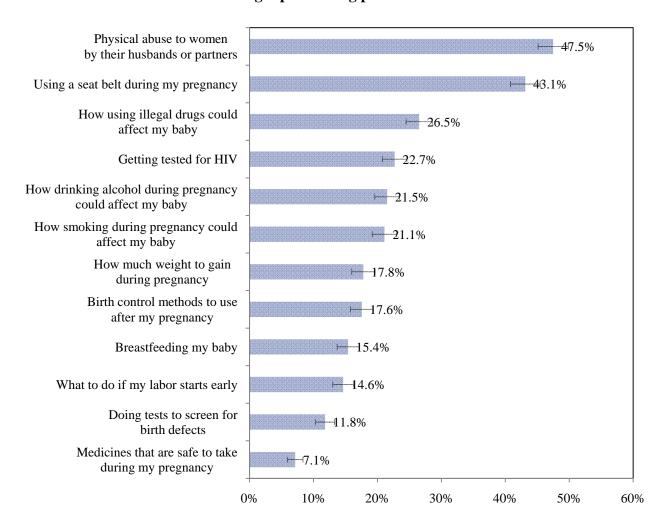




Prenatal Care Content

Survey Questions 24 & 26

Percent of women who indicated that their health care provider did *not* discuss the following topics during prenatal care visits



Recommended content for prenatal care has been established and includes health promotion and counseling in addition to medical practices. The bar chart above shows the percentage of women who indicated that their provider did not discuss each specified content area. High proportions of women reported not having a discussion about physical abuse (47.5 percent) or seat belt use (43.1 percent) with their provider, and these indicators will be illustrated with stratified results for socio-demographic factors in the tables that follow.

No Physical Abuse Discussion with Health Care Provider

Survey Question 23k

Percent of women who reported not having a discussion about physical abuse with their health care provider

Maternal Characteristics	Percent	95%	CI
Overall	47.5	45.1	49.8
Age (Years)			
<20	43.1	35.7	50.5
20-29	44.6	41.5	47.6
30+	54.8	50.6	59.0
Education Level			
Less than High School	36.2	30.0	42.3
High School or Higher	50.1	47.6	52.6
Race/Ethnicity			
Non-Hispanic White	50.1	47.6	52.7
Non-Hispanic Black	33.7	26.5	40.9
Hispanic	40.5	27.1	53.8
Other	49.2	35.7	62.7
Marital Status			
Married	52.4	49.5	55.3
Unmarried	40.0	36.1	43.9
Residence			
Urban	46.3	43.3	49.2
Rural	50.9	47.3	54.4
Prenatal Care Payer			
Private Insurance	55.4	52.1	58.7
Medicaid	38.8	35.4	42.1
Self Pay or Other	50.7	37.5	64.0

DEFINITION. No discussion about physical abuse is defined as response "No" to Question 24: "During any of your prenatal care visits, did a doctor, nurse, or other health care worker talk with you about any of the things listed below?" item k: "Physical abuse to women by their husbands or partners."

In Missouri, 47.5 percent of women reported not having a discussion about physical abuse with their health care provider with higher proportions among women who were aged \geq 30 years, at least high school educated, married, living in rural areas, Non-Hispanic White and not covered by Medicaid for prenatal care.

No Seat Belt Use Discussion with Health Care Provider

Survey Question 23d

Percent of women who reported not having a discussion about seat belt use with their health care provider

Maternal Characteristics Overall	Percent	95% CI	
	43.1	40.8	45.5
Age (Years)			
<20	37.6	30.5	44.6
20-29	41.7	38.7	44.7
30+	48.0	43.8	52.2
Education Level			
Less than High School	39.1	32.9	45.3
High School or Higher	44.0	41.5	46.4
Race/Ethnicity			
Non-Hispanic White	44.3	41.7	46.8
Non-Hispanic Black	38.5	31.2	45.9
Hispanic	30.2	17.9	42.5
Other	52.6	39.1	66.0
Marital Status			
Married	45.3	42.4	48.2
Unmarried	39.8	36.0	43.6
Residence			
Urban	41.3	38.4	44.3
Rural	48.0	44.5	51.6
Prenatal Care Payer			
Private Insurance	44.5	41.2	47.8
Medicaid	41.6	38.1	45.0
Self Pay or Other	28.7	18.4	39.1

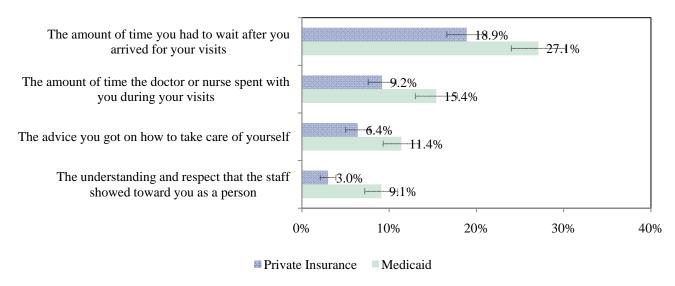
DEFINITION. No discussion about seat belt use is defined as response "No" to Question 24: "During any of your prenatal care visits, did a doctor, nurse or other health care worker talk with you about any of the things listed below?" item d: "Using a seat belt during my pregnancy."

In Missouri, 43.1 percent of women did not have a discussion about seat belt use during pregnancy with their health care provider. Higher proportions of women reported not having this discussion with their health care provider among those who were aged ≥30 years, at least a high school educated, married, living in rural areas, Non-Hispanic White or "other" race/ethnicity and covered by private insurance or Medicaid.

Prenatal Care Satisfaction

Survey Question 25

Percent of women who reported being dissatisfied with the following aspects of their prenatal care



The chart above illustrates dissatisfaction with several aspects of prenatal care among women with private insurance and among women with Medicaid. Women with Medicaid were more likely to report dissatisfaction with substantial differences for each item.

Missouri Mothers Say:

"My child pediatrician felt that if the doctor had listened to me during prenatal care, a lot of problems my baby has would not exist."



Awareness of Folic Acid Benefit for Birth Defects Prevention

Survey Question 28

Percent of women who reported not having heard or read that taking folic acid can help prevent some birth defects

Maternal Characteristics	Percent	95% CI	
Overall	23.7	21.7	25.8
Age (Years)			
<20	41.8	34.4	49.2
20-29	25.8	23.1	28.6
30+	12.5	9.5	15.5
Education Level			
Less than High School	36.2	30.1	42.4
High School or Higher	21.1	18.9	23.2
Race/Ethnicity			
Non-Hispanic White	20.9	18.7	23.0
Non-Hispanic Black	36.0	28.8	43.1
Hispanic	33.5	20.5	46.5
Other	30.8	18.1	43.5
Marital Status			
Married	13.7	11.7	15.8
Unmarried	38.5	34.6	42.3
Residence			
Urban	23.8	21.2	26.4
Rural	23.5	20.4	26.5
Prenatal Care Payer			
Private Insurance	12.6	10.3	14.9
Medicaid	33.7	30.3	37.1
Self Pay or Other	16.3	7.6	25.0

DEFINITION. Not having heard or read that taking folic acid can help prevent some birth defects is defined as response "No" to Question 28: "Have you ever heard or read that taking the vitamin folic acid can help prevent some birth defects?"

Almost one in four Missouri women (23.7 percent) had not heard that folic acid can help to prevent birth defects. Women who were aged <20 years, unmarried, less than high school educated and covered by Medicaid were much more likely to be unaware of the benefits of folic acid. With the exception of Non-Hispanic White women, almost one-third of women in other race/ethnicity groups were unaware of the benefits of folic acid for the prevention of birth defects.

HIV Testing During Prenatal Care

Survey Question 27

Percent of women who reported not having an HIV test during pregnancy or delivery

Maternal Characteristics	Percent	95% CI	
Overall	23.2	21.1	25.3
Age (Years)			
<20	17.5	11.3	23.7
20-29	22.2	19.5	25.0
30+	27.2	23.2	31.2
Education Level			
Less than High School	18.7	13.0	24.3
High School or Higher	24.6	22.2	26.9
Race/Ethnicity			
Non-Hispanic White	25.6	23.2	28.0
Non-Hispanic Black	11.3	6.6	15.9
Hispanic	25.3	10.9	39.7
Other	20.0	7.9	32.2
Marital Status			
Married	30.2	27.2	33.1
Unmarried	13.2	10.5	15.9
Residence			
Urban	23.0	20.4	25.6
Rural	23.8	20.4	27.1
Prenatal Care Payer			
Private Insurance	29.2	26.0	32.5
Medicaid	16.2	13.3	19.0
Self Pay or Other	43.8	30.0	57.5

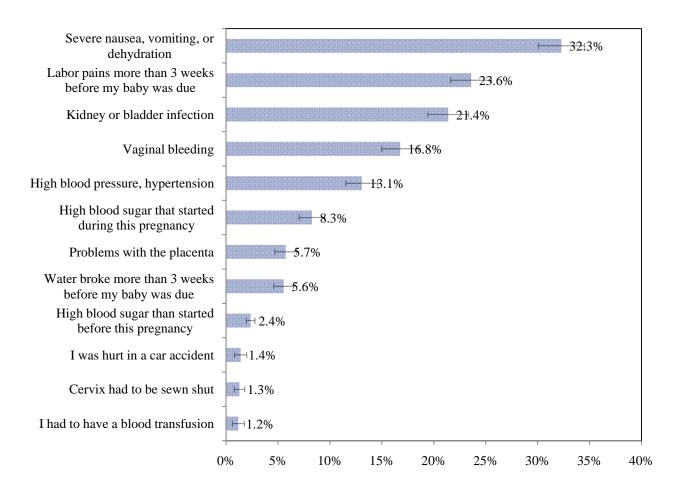
DEFINITION. No HIV test during pregnancy or delivery is defined as response "No" to Question 27: "At any time during your most recent pregnancy or delivery, did you have a test for HIV (the virus that causes AIDS)?"

Reducing the number of cases of perinatally acquired HIV infection is a HP 2020 objective.¹ With HIV screening early in pregnancy, HIV-infected women and their infants are able to receive appropriate and timely interventions (e.g., antiretroviral medications, scheduled cesarean delivery and avoidance of breastfeeding) to reduce mother-to-child transmission of HIV. CDC guidelines emphasize universal HIV screening as early as possible during pregnancy but recommend an opt-out testing approach to maximize opportunities for women to know their HIV status during pregnancy.⁴ Approximately one in four Missouri women (23.2 percent) reported not having an HIV test during pregnancy or delivery with higher percentages among women aged ≥30 years and those with at least a high school education. The percentages of not having an HIV test during pregnancy were much lower among Non-Hispanic Black women and women with Medicaid.

Maternal Health Problems During Pregnancy

Survey Question 31

Percent of women who reported having one of the following problems during pregnancy



The chart above illustrates the prevalence of many problems that may occur during pregnancy. The most prevalent were severe nausea/vomiting/dehydration, labor pains more than three weeks before the due date and kidney or bladder infections.

Sexually Transmitted Infections During Pregnancy

Survey Question 78

Percent of women who reported having a sexually transmitted infection during pregnancy

Maternal Characteristics	cs Percent	95% CI	
Overall	7.5	6.2	8.8
Age (Years)			
<20	13.7	8.8	18.6
20-29	8.5	6.7	10.2
30+	3.1	1.5	4.7
Education Level			
Less than High School	10.6	6.6	14.5
High School or Higher	6.7	5.4	7.9
Race/Ethnicity			
Non-Hispanic White	6.0	4.9	7.2
Non-Hispanic Black	15.8	10.3	21.2
Hispanic	9.3	1.2	17.4
Other	3.6	0.0	8.6
Marital Status			
Married	3.6	2.6	4.6
Unmarried	13.2	10.4	15.9
Residence			
Urban	7.3	5.7	8.9
Rural	8.0	6.1	10.0
Prenatal Care Payer			
Private Insurance	2.7	1.7	3.7
Medicaid	12.4	10.0	14.8
Self Pay or Other	3.1	0.0	7.4

DEFINITION. A sexually transmitted infection is defined as response "Yes" to Genital Warts (HPV), Herpes, Chlamydia, Gonorrhea, Syphilis, or Trichomoniasis for Question 78: "What disease or infection were you told you had" for those with response "Yes" to Question 77: "During your most recent pregnancy, did a doctor, nurse or other health care worker tell you that you had a urinary tract infection (UTI), a sexually transmitted infection (STD), or any vaginal infection, including bacterial vaginosis or Group B Strep (Beta Strep)?"

NOTE. Women were able to choose more than one response to this question.

Sexually transmitted infections (STIs) during pregnancy may result in pregnancy complications or infection of the fetus. Just over 7 percent of Missouri women reported having a STI during pregnancy. The percentages of STIs were higher among women who were aged <20 years, less than high school educated, Non-Hispanic Black, unmarried and covered by Medicaid for prenatal care.

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- 2. Kirkham C, Harris S, Grzybowski S. Evidence-based prenatal care: Part I. General prenatal care and counseling issues. *Am Fam Physician*. Apr 1 2005;71(7):1307-1316.
- 3. National Institutes of Health. Caring for Our Future: The Content of Prenatal Care. A Report of the Public Health Service Expert Panel on the Content of Prenatal Care. Bethesda, MD1989.
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Section 4. Postpartum



Infants with Early Hospital Discharge

Survey Question 50

Percent of infants with early hospital discharge less than 24 hours after birth

Maternal Characteristics	Percent	95% (CI
Overall	1.9	1.2	2.6
Age (Years)			
<20	1.6	0.3	3.0
20-29	2.1	1.1	3.1
30+	1.6	0.5	2.7
Education Level			
Less than High School	2.8	0.6	5.1
High School or Higher	1.6	1.0	2.3
Race/Ethnicity			
Non-Hispanic White	1.8	1.1	2.5
Non-Hispanic Black	2.7	0.3	5.0
Hispanic	1.8	0.0	4.9
Other	0.8	0.0	2.3
Marital Status			
Married	1.7	0.9	2.6
Unmarried	2.1	1.0	3.2
Residence			
Urban	1.7	0.9	2.5
Rural	2.4	1.3	3.5
Delivery Payer			
Private Insurance	0.7	0.2	1.2
Medicaid	2.8	1.6	4.0
Self Pay or Other	2.0	0.0	5.2

DEFINITION. Early hospital discharge for infants is defined as response "Less than 24 hours" to Question 50: "After your baby was born, how long did he or she stay in the hospital?"

A small percentage of infants (1.9 percent) were discharged less than 24 hours following birth. Slightly higher percentages of infants were discharged less than 24 hours after delivery among those born to women who were aged 20-29 years, less than high school educated, Non-Hispanic Black, unmarried, living in rural areas and without private insurance.

No Follow-Up for Infants Within the First Week after Hospital Discharge

Survey Question 63

Percent of infants not seen by a health care provider within the first week after leaving the hospital

Maternal Characteristics	Percent	95%	CI
Overall	11.6	10.0	13.1
Age (Years)			
<20	12.2	6.7	17.7
20-29	11.4	9.4	13.3
30+	11.7	8.8	14.6
Education Level			
Less than High School	14.4	9.9	18.9
High School or Higher	10.9	9.3	12.5
Race/Ethnicity			
Non-Hispanic White	11.9	10.2	13.6
Non-Hispanic Black	8.6	4.3	12.9
Hispanic	19.2	7.5	30.9
Other	6.1	0.3	11.9
Marital Status			
Married	11.6	9.7	13.5
Unmarried	11.5	8.9	14.2
Residence			
Urban	10.4	8.5	12.3
Rural	14.9	12.3	17.5
Delivery Payer			
Private Insurance	8.6	6.6	10.6
Medicaid	13.8	11.4	16.3
Self Pay or Other	23.2	10.9	35.5

DEFINITION. No follow-up within one week after hospital discharge for infants is defined as response "No" to Question 63: "Was your new baby seen by a doctor, nurse or other health care worker during the first week after he or she left the hospital?"

The American Academy of Pediatrics (AAP) recommends that every infant have a check-up three to five days after leaving the hospital. In Missouri, 11.6 percent of infants were not seen one week after discharge with higher percentages among those born to mothers who were less than high school educated, Hispanic, living in rural areas and without private insurance for prenatal care.

Non-Back Sleep Position for Infants

Survey Question 61

Percent of women who reported placing their infant in a non-back position to sleep

	Non-Back	(stomach	or side)		Side		St	omach	
Maternal Characteristics	Percent	95%	CI	Percent	95%	CI	Percent	95%	CI
Overall	30.7	28.5	32.9	14.7	13.1	16.4	15.9	14.1	17.7
Age (Years)									
<20	41.6	34.1	49.1	19.6	14.1	25.1	22.0	15.4	28.6
20-29	33.4	30.5	36.3	16.3	14.0	18.6	17.1	14.7	19.5
30+	21.3	17.8	24.7	9.9	7.5	12.3	11.4	8.6	14.1
Education Level									
Less than High	35.4	29.2	41.6	19.4	14.6	24.1	16.0	11.1	21.0
School High School or	29.5	27.2	31.8	13.8	12.0	15.5	15.8	13.9	17.7
Higher	27.3	21.2	31.0	13.0	12.0	13.3	13.0	13.7	17.7
Race/Ethnicity									
Non-Hispanic White	28.0	25.7	30.2	13.9	12.2	15.6	14.1	12.3	15.9
Non-Hispanic Black	53.1	45.4	60.7	20.4	14.3	26.6	32.6	25.3	39.9
Hispanic	19.2	9.8	28.5	14.4	5.9	22.9	4.8	0.7	8.9
Other	14.9	5.6	24.2	11.3	3.0	19.5	3.6	0.0	8.4
Marital Status									
Married	25.4	22.9	27.8	12.5	10.6	14.3	12.9	11.0	14.8
Unmarried	38.7	34.7	42.7	18.1	15.1	21.2	20.6	17.2	24.0
Residence									
Urban	29.5	26.8	32.3	13.3	11.3	15.3	16.2	13.9	18.4
Rural	33.9	30.5	37.3	18.6	15.8	21.4	15.3	12.7	17.9
Delivery Payer									
Private Insurance	23.9	21.1	26.8	10.6	8.6	12.5	13.4	11.0	15.7
Medicaid	37.1	33.7	40.5	18.6	15.9	21.3	18.5	15.7	21.3
Self Pay or Other	33.0	20.3	45.7	19.3	9.6	28.9	13.7	3.7	23.8

DEFINITION. Non-back sleep position is defined as response "On his or her side" or "On his or her stomach" to Question 61: "How do you *most often* lay your baby down to sleep now?"

NOTE. Infants who were still in the hospital or who had passed away at the time of the survey were excluded.

The AAP recommends that infants be placed exclusively on their backs for sleep.² Decreasing the percentage of infants who are put down to sleep in an unsafe sleep position to 24.1 percent is a Healthy People (HP) 2020 objective.³ In Missouri, the overall percentage of women who placed their infants in a non-back sleep position was 30.7 percent. Women who were younger, Non-Hispanic Black, unmarried and without private insurance were more likely to place their infants in a non-back sleep position.

Infant Co-Sleeping

Survey Question 62

Percent of infants often or always sleeping in the same bed with someone else

Maternal Characteristics	Percent	95%	CI
Overall	22.5	20.4	24.5
Age (Years)			
<20	29.9	22.8	36.9
20-29	21.3	18.7	23.9
30+	21.8	18.1	25.5
Education Level			
Less than High School	23.5	18.0	29.0
High School or Higher	22.1	19.9	24.3
Race/Ethnicity			
Non-Hispanic White	18.1	16.1	20.1
Non-Hispanic Black	46.3	38.7	54.0
Hispanic	25.3	14.0	36.7
Other	27.9	15.7	40.0
Marital Status			
Married	19.0	16.6	21.3
Unmarried	27.7	24.1	31.4
Residence			
Urban	23.7	21.1	26.2
Rural	19.2	16.3	22.0
Delivery Payer			
Private Insurance	18.6	15.9	21.3
Medicaid	25.5	22.4	28.6
Self Pay or Other	29.8	17.1	42.6

DEFINITION. Infant co-sleeping is defined as response "Often" or "Always" to Question 62: "How often does your new baby sleep in the same bed with you or anyone else?"

Co-sleeping is a very controversial topic with proponents suggesting that the practice increases bonding, facilitates breastfeeding, and is natural and instinctive.⁴ However, research suggests that this practice is potentially dangerous for the infant.⁵⁻¹⁰ The AAP recommends that infants be placed to sleep in a crib, bassinet, or cradle that meets safety standards placed in close proximity to the mother instead of co-sleeping.² Nearly one in four Missouri women (22.5 percent) reported often or always placing their infants to sleep in a bed with someone else. Non-Hispanic Black women, unmarried women and those without private insurance were more likely to report co-sleeping.

Infant Exposure to Secondhand Smoke

Survey Question 60

Percent of infants who spend time in the same room as someone smoking

Maternal Characteristics	Percent	95%	CI
Overall	10.9	9.4	12.4
Age (Years)			
<20	19.4	13.6	25.3
20-29	11.0	9.1	13.0
30+	7.5	5.1	9.8
Education Level			
Less than High School	18.0	13.1	22.9
High School or Higher	9.5	8.0	10.9
Race/Ethnicity			
Non-Hispanic White	10.9	9.3	12.5
Non-Hispanic Black	12.5	7.2	17.7
Hispanic	9.3	0.0	19.1
Other	6.0	0.7	11.3
Marital Status			
Married	7.0	5.6	8.5
Unmarried	16.8	13.8	19.8
Residence			
Urban	9.5	7.7	11.3
Rural	14.9	12.3	17.4
Delivery Payer			
Private Insurance	6.1	4.5	7.7
Medicaid	15.9	13.3	18.5
Self Pay or Other	4.8	0.0	9.6

DEFINITION. Exposure to secondhand smoke is defined as a response other than "My baby is never in the same room with someone who is smoking" to Question 60: "About how many hours a day, on average, is your new baby in the same room with someone who is smoking?"

Secondhand smoke has been associated with Sudden Infant Death Syndrome (SIDS), weaker lungs, acute lower respiratory infections, and exacerbation of asthma symptoms. Approximately one in ten women (10.9 percent) reported that their infants spend time in the same room with someone who is smoking. The proportions of women indicating their infant was exposed to secondhand smoke were much higher among women who were aged <20 years, less than high school educated, unmarried, living in rural areas and covered by Medicaid at the time of delivery.

No Breastfeeding Initiation

Survey Question 53

Percent of women who reported never breastfeeding

Maternal Characteristics	Percent	95% CI	
Overall	27.7	25.5	29.9
Age (Years)			
<20	43.5	36.0	51.1
20-29	28.0	25.2	30.9
30+	20.9	17.3	24.5
Education Level			
Less than High School	49.8	43.3	56.3
High School or Higher	22.4	20.3	24.5
Race/Ethnicity			
Non-Hispanic White	27.6	25.2	29.9
Non-Hispanic Black	34.2	26.9	41.5
Hispanic	19.5	9.1	29.8
Other	9.3	3.2	15.4
Marital Status			
Married	18.7	16.4	20.9
Unmarried	41.3	37.2	45.3
Residence			
Urban	25.5	22.8	28.2
Rural	33.9	30.5	37.3
Delivery Payer			
Private Insurance	16.7	14.2	19.2
Medicaid	38.5	35.0	41.9
Self Pay or Other	11.7	4.2	19.3

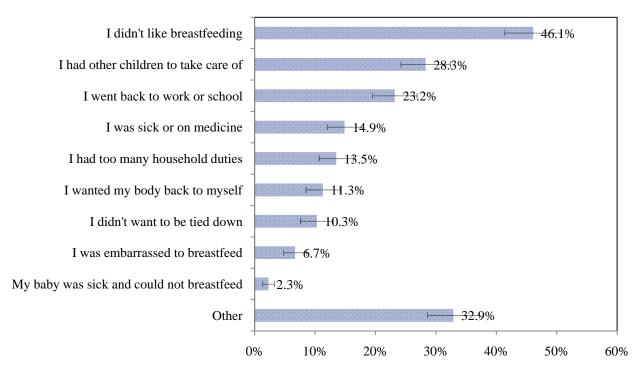
DEFINITION. Never breastfeeding is defined as response "No" to Question 53: "Did you ever breastfeed or pump breast milk to feed your new baby after delivery?"

Infants who receive breast milk are less likely to have respiratory infections, ear infections, gastrointestinal illness, dermatitis, diabetes, SIDS, obesity and childhood leukemia. For the mother, breastfeeding is associated with a reduced risk for type II diabetes, breast cancer, ovarian cancer, postpartum depression and postpartum weight retention. Reducing the proportion of infants who are never breastfed to 18.1 percent is a HP 2020 objective. The percentage of women who never initiated breastfeeding in Missouri was 27.7 percent. Women who were aged <20 years, less than high school educated, Non-Hispanic Black, unmarried and covered by Medicaid were less likely to initiate breastfeeding, compared with their counterparts.

Reasons for Not Initiating Breastfeeding

Survey Question 54

Percent of women who reported one of the following reasons for not breastfeeding their new baby



NOTE. Women were able to choose more than one response to this question.



Stopping Breastfeeding

Survey Questions 53, 55, & 56

Percent of women ever breastfeeding who had stopped breastfeeding before two months

Maternal Characteristics	Percent	cent 95%	
Overall	37.7	35.0	40.4
Age (Years)			
<20	70.0	60.6	78.0
20-29	39.0	35.5	42.6
30+	26.5	22.5	30.9
Education Level			
Less than High School	62.3	53.6	70.3
High School or Higher	34.3	31.6	37.0
Race/Ethnicity			
Non-Hispanic White	37.2	34.4	40.1
Non-Hispanic Black	46.4	37.1	55.9
Hispanic	37.9	23.2	55.3
Other	17.6	9.9	29.5
Marital Status			
Married	29.4	26.5	32.5
Unmarried	55.2	50.0	60.3
Residence			
Urban	35.8	32.5	39.1
Rural	43.8	39.4	48.2
Delivery Payer			
Private Insurance	30.5	27.3	34.0
Medicaid	48.0	43.5	52.4
Self Pay or Other	25.7	14.2	42.0

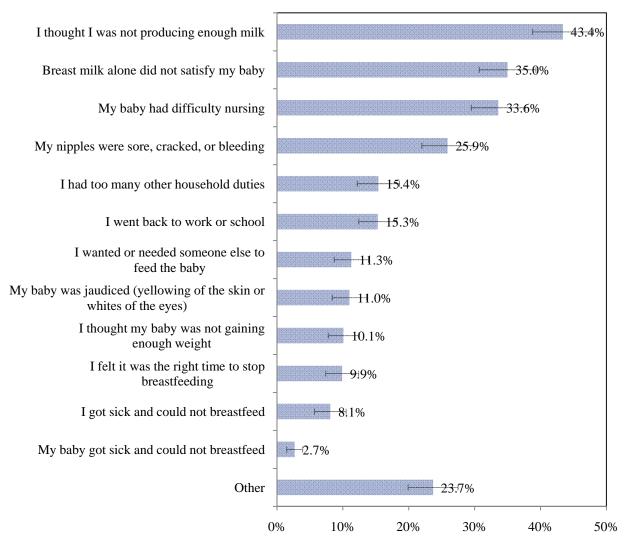
DEFINITION. Among women who answered "Yes" to Question 53, "Did you ever breastfeed or pump breast milk to feed your new baby after delivery?", those who stopped breastfeeding before two months included women who responded "No" to Question 55, "Are you still breastfeeding or feeding pumped milk to your new baby?", and reported breastfeeding duration less than two months or eight weeks to Question 56, "How many weeks or months did you breastfeed or pump milk to feed your baby?"

More than one-third (37.7 percent) of Missouri women who initiated breastfeeding stopped before two months. A substantially larger percentage of women aged <20 years stopped breastfeeding early. In addition, higher percentages of women stopped before two months among those who were less than high school educated, Non-Hispanic Black, unmarried, living in rural areas and covered by Medicaid.

Reasons for Stopping Breastfeeding

Survey Question 57

Percent of women who ever breastfeed who reported the following reasons for stopping before two months



NOTE. Women were able to choose more than one response to this question.

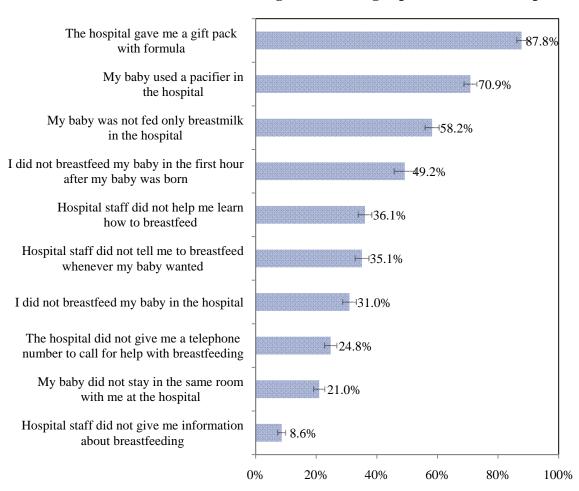
Missouri Mothers Say:

"[My] baby was premature and not taking to my breast. After several times trying, [I] gave up and went to formula. Also pumping was painful."

Breastfeeding Experiences in the Hospital

Survey Question 59

Percent of women with the following breastfeeding experiences in the hospital



The baby-friendly hospitals initiative is an effort to promote breastfeeding during the hospital stay following delivery. ¹⁴ Implementing the steps recommended by the baby-friendly hospitals initiative, including many items above in addition to having a written breastfeeding policy and training all health care staff to implement the policy, has been associated with increased breastfeeding rates. ¹⁵ The initiative does not recommend providing formula gift packs or using a pacifier, which do not support breastfeeding initiation and continuation. However, 87.8 percent of mothers received a gift pack with formula from the hospital, and 70.9 percent of mothers indicated that their baby used a pacifier during the hospital stay.

Missouri Mothers Say:

"When they give breastfeeding diaper bags to breastfeeding moms, ditch the formula and replace it with a hand pump to express milk and if possible, breast milk storage bags."

No Postpartum Birth Control Use

Survey Question 69

Percent of women not using birth control during the postpartum period

Maternal Characteristics	Percent	ent 95% CI		
Overall	13.2	11.5	14.8	
Age (Years)				
<20	11.5	7.4	15.7	
20-29	13.4	11.2	15.6	
30+	13.4	10.5	16.3	
Education Level				
Less than High School	18.8	13.5	24.0	
High School or Higher	12.0	10.4	13.7	
Race/Ethnicity				
Non-Hispanic White	12.7	11.0	14.4	
Non-Hispanic Black	12.9	8.2	17.6	
Hispanic	24.3	11.2	37.4	
Other	13.5	5.1	21.9	
Marital Status				
Married	13.4	11.4	15.5	
Unmarried	12.8	10.1	15.5	
Residence				
Urban	14.1	12.0	16.1	
Rural	10.7	8.5	12.9	
Delivery Payer				
Private Insurance	11.5	9.4	13.6	
Medicaid	14.0	11.4	16.5	
Self Pay or Other	22.3	12.0	32.7	

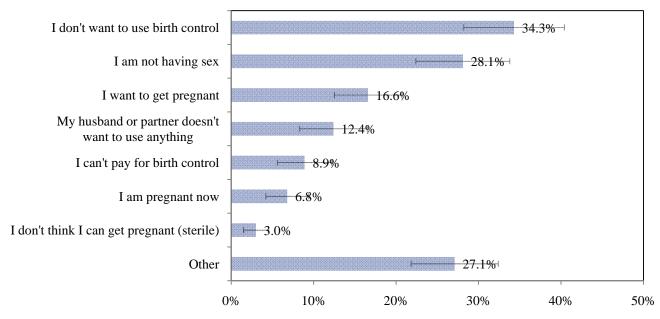
DEFINITION. Not using birth control during the postpartum period is defined as response "No" to Question 69: "Are you or your husband or partner doing anything to keep from getting pregnant *now*?"

Postpartum birth control use is important to ensuring an appropriate time span between pregnancies. Short interpregnancy intervals have been associated with low birth weight, preterm birth, delivery of a small for gestational age infant, early neonatal death and congenital malformations. In Missouri, 13.2 percent of women reported not using postpartum birth control with higher percentages among women with less than a high school education, Hispanics, women living in urban areas and those whose delivery payer was self or other.

Reasons for No Postpartum Birth Control Use

Survey Question 70

Percentage of women who reported the following reasons for not using birth control in the postpartum period

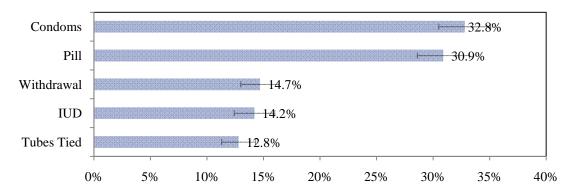


NOTE. Women were able to choose more than one response to this question.

Types of Birth Control Used Postpartum

Survey Question 71

Percentage of women who reported using the following types of birth control in the postpartum period



NOTE. Only the five methods with the highest percentages are depicted here.

NOTE. Women were able to choose more than one response to this question.



No Discussion About Postpartum Birth Control With Health Care Provider After Delivery

Survey Question 72

Percent of women who reported not having a discussion about postpartum birth control with their health care provider after delivery

Maternal Characteristics	Percent	95%	CI
Overall	13.0	11.4	14.5
Age (Years)			
<20	10.6	5.8	15.4
20-29	12.2	10.2	14.2
30+	15.3	12.4	18.3
Education Level			
Less than High School	14.5	10.0	18.9
High School or Higher	12.7	11.0	14.4
Race/Ethnicity			
Non-Hispanic White	13.9	12.2	15.7
Non-Hispanic Black	8.5	4.3	12.7
Hispanic	13.7	3.6	23.8
Other	6.3	0.7	11.9
Marital Status			
Married	13.3	11.4	15.3
Unmarried	12.4	9.8	15.0
Residence			
Urban	12.8	10.9	14.8
Rural	13.3	10.9	15.8
Delivery Payer			
Private Insurance	11.8	9.6	14.0
Medicaid	13.4	11.1	15.7
Self Pay or Other	19.4	9.7	29.1

DEFINITION. No discussion about postpartum birth control after delivery is defined as response "No" to Question 72: "After your new baby was born, did a doctor, nurse or other health care worker talk with you about using birth control?"

Thirteen percent of Missouri women reported not having a conversation about postpartum birth control with their health care provider after delivery. The percentages were higher among women aged ≥ 30 years, Non-Hispanic Whites and Hispanics and women who indicated self pay or other as their delivery payer.

Postpartum Checkup

Survey Question 73

Percent of women who reported not having had a postpartum checkup

Maternal Characteristics	Percent	95% (CI
Overall	10.9	9.3	12.6
Age (Years)			
<20	14.9	9.1	20.8
20-29	11.3	9.2	13.4
30+	8.8	6.1	11.5
Education Level			
Less than High School	25.9	19.8	32.0
High School or Higher	7.7	6.3	9.0
Race/Ethnicity			
Non-Hispanic White	10.0	8.4	11.7
Non-Hispanic Black	12.1	6.8	17.4
Hispanic	29.9	16.1	43.7
Other	5.8	0.0	12.6
Marital Status			
Married	8.3	6.6	10.1
Unmarried	14.9	11.8	18.0
Residence			
Urban	11.4	9.3	13.5
Rural	9.7	7.6	11.9
Delivery Payer			
Private Insurance	4.9	3.3	6.6
Medicaid	15.8	13.1	18.5
Self Pay or Other	17.5	6.4	28.6

DEFINITION. Not having a postpartum checkup is defined as response "No" to Question 73: "Since your new baby was born, have you had a postpartum check up for yourself?"

Postpartum checkups are important to assess the mother post delivery and begin talking about interconception care. Approximately one in ten women (10.9 percent) reported not having a postpartum check up with much higher percentages among women who were aged <30 years, less than high school educated, Hispanic, unmarried, living in rural areas and without private insurance.

Postpartum Depression Symptoms

Survey Questions 79a & 79b

Percent of women who reported often or always feeling down, depressed, or hopeless or having little interest or pleasure in doing things

Maternal Characteristics	Percent	95% CI	
Overall	14.0	12.4	15.6
Age (Years)			
<20	15.4	10.9	19.9
20-29	16.7	14.3	19.0
30+	8.4	6.1	10.6
Education Level			
Less than High School	18.8	14.3	23.3
High School or Higher	12.8	11.1	14.5
Race/Ethnicity			
Non-Hispanic White	12.9	11.2	14.5
Non-Hispanic Black	22.0	15.9	28.0
Hispanic	9.3	2.7	15.9
Other	12.9	3.6	22.3
Marital Status			
Married	11.3	9.5	13.2
Unmarried	18.0	15.1	20.9
Residence			
Urban	13.7	11.8	15.7
Rural	14.7	12.2	17.3
Delivery Payer			
Private Insurance	6.7	5.1	8.4
Medicaid	20.8	18.1	23.6
Self Pay or Other	5.1	0.3	9.9

DEFINITION. Often or always feeling down, depressed, or hopeless or having little interest or pleasure in doing things is defined as response "Often" or "Always" to either Question 79a: "Since your new baby was born, how often have you felt down, depressed, or hopeless?" or Question 79b: "Since your new baby was born, how often have you had little interest or little pleasure in doing things?"

Postpartum depression (PPD) may affect maternal-infant relationships and infant behaviors. ²⁴⁻²⁶ Fourteen percent of women in Missouri reported having PPD symptoms with higher prevalences among women who were aged <30 years, less than high school educated, Non-Hispanic Black, unmarried and covered by Medicaid at delivery.

Help for Postpartum Depression

Survey Question 80

Percent of women who reported seeking help for postpartum depression

Maternal Characteristics	Percent	95%	CI
Overall	13.0	11.5	14.6
Age (Years)			
<20	11.6	7.0	16.3
20-29	13.2	11.1	15.2
30+	13.3	10.5	16.1
Education Level			
Less than High School	16.3	11.8	20.8
High School or Higher	12.1	10.5	13.7
Race/Ethnicity			
Non-Hispanic White	13.5	11.8	15.2
Non-Hispanic Black	10.7	6.1	15.4
Hispanic	12.2	1.9	22.5
Other	11.9	1.9	21.8
Marital Status			
Married	12.9	10.9	14.9
Unmarried	13.2	10.7	15.7
Residence			
Urban	12.2	10.3	14.0
Rural	15.5	12.9	18.1
Delivery Payer			
Private Insurance	9.6	7.8	11.5
Medicaid	16.3	13.8	18.8
Self Pay or Other	10.7	1.5	19.9

DEFINITION. Seeking help for postpartum depression is defined as response "Yes" to Question 80: "Since your new baby was born, did you seek help for depression from a doctor, nurse, or other health care worker?"

Thirteen percent of women reported seeking help for PPD after their baby was born. Although PPD symptoms were more prevalent among certain groups of women, the percentage who sought help for depression was not necessarily distributed in the same way. For example, Non-Hispanic Black women were more likely to report having PPD symptoms compared to other groups, but this group had the lowest percentage seeking help.

Missouri Mothers Say:

"I honestly believe that all mothers should have some type of help after pregnancy because of depression. I needed help and did not know how or where to seek help. I think this is very vital to the well-being of the mother and child."

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Section 5. Health Care Coverage and WIC Participation



Prepregnancy Health Insurance

Survey Questions 1 and 2

Percent of women with other insurance, Medicaid, or no health insurance before pregnancy

	Other Insurance		N	Medicaid		No Insurance		<u> </u>	
Maternal Characteristics	Percent	95%	6 CI	Percent	95%	CI	Percent	95%	CI
Overall	53.8	51.5	56.2	15.4	13.6	17.3	30.7	28.6	32.9
Age (Years)									
<20	21.2	15.3	27.0	43.1	35.7	50.5	35.7	28.8	42.6
20-29	48.6	45.6	51.6	13.5	11.3	15.8	37.8	34.9	40.8
30+	76.9	73.3	80.6	8.0	5.4	10.6	15.0	12.1	18.0
Education Level									
Less than High School	18.7	13.6	23.8	35.9	29.7	42.1	45.4	39.1	51.7
High School or Higher	62.5	60.1	64.9	10.3	8.7	12.0	27.2	25.0	29.4
Race/Ethnicity									
Non-Hispanic White	58.6	56.1	61.1	11.6	9.9	13.2	29.8	27.5	32.2
Non-Hispanic Black	32.3	25.4	39.2	35.0	27.9	42.2	32.6	25.9	39.3
Hispanic	27.0	15.0	39.0	28.0	14.8	41.2	45.0	31.7	58.2
Other	65.5	52.4	78.6	8.5	0.4	16.7	26.0	13.9	38.1
Marital Status									
Married	71.9	69.3	74.5	6.9	5.3	8.4	21.2	18.9	23.6
Unmarried	27.1	23.6	30.5	28.1	24.4	31.9	44.8	40.9	48.7
Residence									
Urban	56.8	53.8	59.7	15.2	12.8	17.5	28.1	25.4	30.7
Rural	45.6	42.1	49.1	16.2	13.6	18.9	38.2	34.7	41.6

^{*} DEFINITION for prepregnancy health insurance: Women who answered "Yes" to Question 2: "Just before you got pregnant, were you on Medicaid?" were classified as having Medicaid; the rest of women who answered "Yes" to Question 1: "Just before you got pregnant, did you have health insurance? Do not count Medicaid." were classified as having other insurance; then the rest who answered "No" to Question 1 were classified as having no health insurance.

In 2006 the CDC provided recommendations for improving preconception health and health care in the United States. Among the 10 recommendations are preventive visits, interventions for identified risks, interconception care, prepregnancy checkups and health insurance coverage for women with low incomes. Meeting these recommendations is influenced by a woman's health insurance status, which greatly impacts access to care. Over 30 percent of Missouri women had no health insurance before pregnancy and 15.4 percent reported having Medicaid. Women who were aged <30 years, less than high school educated, Hispanic, unmarried and living in rural areas were more likely to have no insurance before pregnancy, compared to their counterparts.

Missouri Mothers Say:

"I am really struggling with being able to afford medical care. I do have a job and am trying to support my family but I do not make enough to afford private insurance but make barely enough to not get Medicaid."

Prenatal Care Health Insurance

Survey Question 23

Percent of women with private insurance, Medicaid, or self-pay/other for prenatal care

	Private Insurance		Medicaid			Self-pay or Other			
Maternal Characteristics	Percent	95%	CI	Percent	95%	CI	Percent	95%	CI
Overall	47.9	45.6	50.3	49.4	47.0	51.7	2.7	2.0	3.4
Age (Years)									
<20	10.3	5.7	15.0	87.6	82.6	92.6	2.1	0.0	4.1
20-29	42.7	39.7	45.7	54.8	51.7	57.8	2.5	1.7	3.4
30+	72.9	69.0	76.8	23.7	20.0	27.5	3.4	1.9	4.8
Education Level									
Less than High School	12.7	8.1	17.3	84.5	79.8	89.2	2.8	1.4	4.3
High School or	56.0	53.5	58.5	41.2	38.8	43.7	2.7	1.9	3.5
Higher									
Race/Ethnicity									
Non-Hispanic White	52.2	49.7	54.7	45.0	42.5	47.5	2.8	2.0	3.6
Non-Hispanic Black	25.6	18.9	32.3	72.2	65.3	79.0	2.3	0.1	4.4
Hispanic	24.0	12.0	36.0	71.8	59.6	84.0	4.2	0.4	8.0
Other	72.4	60.0	84.7	27.6	15.3	40.0			
Marital Status									
Married	68.0	65.3	70.7	28.4	25.7	31.0	3.6	2.6	4.6
Unmarried	17.1	14.1	20.1	81.5	78.4	84.6	1.4	0.6	2.2
Residence									
Urban	52.0	49.0	55.0	45.6	42.7	48.6	2.3	1.5	3.2
Rural	36.7	33.3	40.0	59.6	56.1	63.0	3.8	2.4	5.1

^{*}DEFINITION for prenatal care payer: Women who checked "Medicaid" were classified as having Medicaid; the rest of women who checked "Health insurance or HMO" were classified as having private insurance; those who only checked either "Personal income" or "Other" were classified as self-pay or other.

NOTE. Question 23 allows the respondent to choose multiple answers. Therefore the category "Medicaid" may include Medicaid only or Medicaid plus other payment sources. Similarly the category "Private Insurance" may include private insurance only or private insurance plus self-pay or other.

Lack of health insurance during the prenatal period could adversely impact a woman's ability to seek early prenatal care, quality of care and access to needed services. Although only 15.4 percent of women reported having Medicaid before pregnancy, nearly half of the women (49.4 percent) reported Medicaid as their prenatal care payer. The percentages of having Medicaid for prenatal care were higher among women who were aged <30 years, less than high school educated, Non-Hispanic Black, unmarried and living in rural areas.

Missouri Mothers Say:

"Medicaid is very helpful to pregnant women so they can get appropriate care for themselves and their unborn babies. If it had not been for Medicaid, I would not have received any prenatal care."

Delivery Health Insurance

Survey Question 48

Percent of women with private insurance, Medicaid, or self-pay/other for delivery

	Private Insurance		N	Medicaid			Self-pay or Other		
Maternal Characteristics	Percent	95%	CI	Percent	95%	CI	Percent	95%	% CI
Overall	46.5	44.2	48.8	50.8	48.5	53.1	2.7	2.0	3.4
Age (Years)									
<20	10.7	6.0	15.4	86.2	81.0	91.5	3.1	0.4	5.7
20-29	40.5	37.5	43.4	57.2	54.2	60.2	2.3	1.5	3.1
30+	71.8	67.9	75.7	25.0	21.2	28.8	3.2	1.7	4.7
Education Level									
Less than High School	11.6	7.3	15.9	84.9	80.3	89.4	3.5	1.7	5.4
High School or Higher	54.9	52.4	57.3	42.7	40.2	45.1	2.5	1.7	3.3
Race/Ethnicity									
Non-Hispanic White	50.6	48.1	53.1	46.8	44.3	49.3	2.6	1.8	3.4
Non-Hispanic Black	25.0	18.4	31.7	72.9	66.1	79.7	2.0	0.0	4.1
Hispanic	25.1	12.9	37.4	70.1	57.5	82.7	4.8	0.5	9.0
Other	64.3	51.2	77.4	30.7	18.2	43.1	5.0	0.0	12.2
Marital Status									
Married	67.2	64.5	69.9	29.3	26.6	31.9	3.5	2.4	4.6
Unmarried	15.2	12.4	18.0	83.4	80.5	86.3	1.4	0.6	2.3
Residence									
Urban	50.6	47.6	53.5	47.0	44.0	49.9	2.4	1.6	3.3
Rural	35.1	31.8	38.4	61.5	58.1	64.9	3.4	2.1	4.7

^{*} DEFINITION of delivery payer: Women who checked "Medicaid" were classified as having Medicaid; the rest of women who checked "Health insurance or HMO" were classified as having private insurance; those who only checked either "Personal income" or "Other" were classified as self-pay or other.

NOTE. Question 48 allows the respondent to choose multiple answers. Therefore the category "Medicaid" may include Medicaid only or Medicaid plus other payment sources. Similarly the category "Private Insurance" may include private insurance only or private insurance plus self-pay or other.

Most women reported having either private insurance (46.5 percent) or Medicaid (50.8 percent) for delivery with relatively few women indicating self-pay or other (2.7 percent) as their delivery payment source. The socio-demographic distributions were very similar to those described above for prenatal care health insurance.

Missouri Mothers Sav:

"We would like to have other children but now carry private insurance that does not cover pregnancy. We would like to see hospitals with reasonable 'Private pay' options."

WIC Participation

Survey Question 29

Percent of women who participated in WIC during pregnancy

Maternal Characteristics	Percent	95%	CI
Overall	46.4	44.1	48.8
Age (Years)			
<20	83.3	77.5	89.2
20-29	50.9	47.9	53.9
30+	23.0	19.3	26.6
Education Level			
Less than High School	76.3	70.7	81.9
High School or Higher	39.4	37.0	41.8
Race/Ethnicity			
Non-Hispanic White	42.7	40.3	45.2
Non-Hispanic Black	66.1	59.0	73.2
Hispanic	62.3	48.3	76.3
Other	29.7	17.6	41.9
Marital Status			
Married	29.3	26.7	31.8
Unmarried	71.8	68.2	75.4
Residence			
Urban	40.8	37.9	43.7
Rural	62.2	58.8	65.5
Prenatal Care Payer			
Private Insurance	12.3	10.1	14.5
Medicaid	81.7	78.9	84.5
Self Pay or Other	22.2	12.5	31.9

DEFINITION. WIC Participation during pregnancy is defined as response "Yes" to Question 29: "During your most recent pregnancy, were you on WIC (the special supplemental nutrition program for women, infants, and children)?"

The Special Supplemental Nutrition Program for Women, Infants, and Children (WIC) provides supplemental foods, health care referrals, and nutrition education for low-income pregnant women, postpartum women and to infants and children up to their fifth birthday.² Almost half of Missouri women (46.4 percent) reported WIC participation during pregnancy with substantial differences based on socio-demographic factors. Women who were aged <20 years, less than high school educated, Non-Hispanic Black or Hispanic, unmarried, living in rural areas and covered by Medicaid were more likely to participate in WIC than their counterparts.

Missouri Mothers Say:

"WIC is also a helpful program for mothers and babies. They have helped me with breastfeeding both of my babies."

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Section 6. Select Maternal Risk Factors



Smoking During the Three Months Before Pregnancy

Survey Question 34

Percent of women who reported smoking in the three months before pregnancy

Maternal Characteristics	Percent	95% (CI
Overall	33.2	31.0	35.5
Age (Years)			
<20	39.4	32.0	46.7
20-29	37.7	34.7	40.7
30+	22.4	18.8	26.0
Education Level			
Less than High School	52.8	46.4	59.3
High School or Higher	28.9	26.6	31.1
Race/Ethnicity			
Non-Hispanic White	36.1	33.7	38.6
Non-Hispanic Black	23.0	16.6	29.4
Hispanic	21.2	10.4	31.9
Other	15.3	6.8	23.7
Marital Status			
Married	23.3	20.9	25.8
Unmarried	48.2	44.2	52.2
Residence			
Urban	31.4	28.6	34.2
Rural	38.3	34.8	41.7
Prepregnancy Health			
Insurance Status			
Private Insurance	23.1	20.4	25.8
Medicaid	42.4	35.7	49.1
No Insurance	46.8	42.5	51.0

DEFINITION. Smoking during the three months before pregnancy is defined as response of smoking less than one cigarette or more per day to Question 34: "In the *3 months before* you got pregnant, how many cigarettes did you smoke on an average day?"

Smoking before pregnancy is associated with delayed conception, infertility, ectopic pregnancy and spontaneous abortion. Reducing the proportion of women who smoke before pregnancy to 14.6 percent is a Healthy People 2020 objective. One-third of Missouri women (33.2 percent) reported smoking in the three months before pregnancy, far from the HP 2020 objective. Higher percentages of women smoked before pregnancy among those who were aged <30 years, less than high school educated, Non-Hispanic White, unmarried, living in rural areas and without private insurance.

Smoking During the Last Three Months of Pregnancy

Survey Question 35

Percent of women who reported smoking in the last three months of pregnancy

Maternal Characteristics	Percent	95% (CI
Overall	20.1	18.2	22.0
Age (Years)			
<20	25.0	18.4	31.5
20-29	21.9	19.3	24.4
30+	14.8	11.7	17.9
Education Level			
Less than High School	40.4	34.1	46.7
High School or Higher	15.4	13.6	17.2
Race/Ethnicity			
Non-Hispanic White	22.0	19.9	24.2
Non-Hispanic Black	13.4	8.0	18.7
Hispanic	11.2	3.5	19.0
Other	8.6	2.5	14.6
Marital Status			
Married	12.4	10.4	14.3
Unmarried	31.6	27.9	35.3
Residence			
Urban	18.2	15.9	20.6
Rural	25.2	22.1	28.3
Prenatal Care Payer			
Private Insurance	7.9	6.1	9.7
Medicaid	31.7	28.4	34.9
Self Pay or Other	16.1	6.3	26.0

DEFINITION. Smoking during the last three months of pregnancy is defined as response of smoking less than one cigarette or more per day to Question 35: "In the *last 3 months* of your pregnancy, how many cigarettes did you smoke on an average day?"

Maternal smoking during pregnancy is associated with placental problems, preterm birth, perinatal mortality, low birth weight, Sudden Infant Death Syndrome (SIDS) and delivery of a small for gestational age infant. Decreasing the proportion of women who smoke during pregnancy is a HP 2020 objective with a target of 1.4 percent. Missouri is far from reaching the HP 2020 objective with 20.1 percent of women smoking during the last three months of pregnancy. Maternal smoking decreased approximately 13 percent between prepregnancy and the last three months of pregnancy. The prevalence rates of smoking were higher among women who were aged <30 years, less than high school educated, Non-Hispanic White, unmarried and living in rural areas. A much higher percentage of women with Medicaid reported smoking during the last three months of pregnancy compared to women with private insurance, self pay or other as their prenatal care payer.

Smoking During the Postpartum Period

Survey Question 36

Percent of women who reported smoking during the postpartum period

Maternal Characteristics	Percent	95%	CI
Overall	26.7	24.6	28.8
Age (Years)			
<20	33.9	26.8	41.0
20-29	30.4	27.5	33.2
30+	16.9	13.6	20.2
Education Level			
Less than High School	47.2	40.8	53.6
High School or Higher	22.0	19.9	24.0
Race/Ethnicity			
Non-Hispanic White	29.0	26.7	31.4
Non-Hispanic Black	18.8	12.8	24.8
Hispanic	17.1	7.6	26.5
Other	11.0	4.1	18.0
Marital Status			
Married	17.3	15.1	19.5
Unmarried	40.8	36.9	44.8
Residence			
Urban	24.6	22.0	27.2
Rural	32.4	29.0	35.7
Delivery Payer			
Private Insurance	12.3	10.1	14.5
Medicaid	40.8	37.4	44.3
Self Pay or Other	11.1	2.5	19.8

DEFINITION. Smoking during the postpartum period is defined as response of smoking less than one cigarette or more per day to Question 36: "How many cigarettes do you smoke on an average day now?"

The percentage of women who reported smoking in the postpartum period was slightly higher than during the prenatal period but not as high as prepregnancy. The distribution of socio-demographic variables was similar to those described for smoking in the three months before pregnancy and in the last three months of pregnancy.

Missouri Mothers Say:

"I would like for you to really urge mothers not to smoke unless they would like to see their child fighting for life...Because deep down in my heart, I know it was because of my smoking that my son was born premature."

Husband or Partner Smoking in the House

Survey Question 37

Percent of women who reported that their husband or partner smokes inside the house

Maternal Characteristics	Percent	95% CI		
Overall	9.4	7.9	10.9	
Age (Years)				
<20	14.1	8.5	19.8	
20-29	10.7	8.7	12.8	
30+	5.0	3.0	7.0	
Education Level				
Less than High School	19.7	14.5	25.0	
High School or Higher	6.9	5.6	8.2	
Race/Ethnicity				
Non-Hispanic White	8.6	7.1	10.1	
Non-Hispanic Black	15.5	9.9	21.2	
Hispanic	7.2	0.0	15.9	
Other	4.7	0.0	11.6	
Marital Status				
Married	6.0	4.5	7.5	
Unmarried	14.5	11.6	17.5	
Residence				
Urban	9.4	7.6	11.3	
Rural	9.3	7.3	11.4	
Prepregnancy Health				
Insurance Status				
Private Insurance	4.1	2.8	5.3	
Medicaid	20.4	14.5	26.2	
No Insurance	13.5	10.5	16.5	
Prenatal Care Payer				
Private Insurance	3.3	2.0	4.6	
Medicaid	15.3	12.6	18.0	
Self Pay or Other	6.7	0.7	12.7	
Delivery Payer				
Private Insurance	2.7	1.6	3.7	
Medicaid	15.6	12.9	18.3	
Self Pay or Other	4.4	0.0	8.9	

DEFINITION. Husband or partner smoking in the house is defined as response "Yes" to Question 37: "Does your husband or partner smoke inside your house?"

Secondhand smoke during pregnancy is potentially just as harmful to the developing fetus as the woman herself smoking.⁴ Nearly 10 percent (9.4 percent) of women reported having a husband or partner who smokes in the house with higher proportions among those who were aged <30 years, less than high school educated, Non-Hispanic Black, unmarried and covered by Medicaid.

Alcohol Use During the Three Months Before Pregnancy

Survey Questions 39a & 39b

Percent of women who reported drinking alcohol in the three months before pregnancy

Maternal Characteristics	Percent	95% (CI
Overall	59.3	57.0	61.6
Age (Years)			
<20	38.9	31.6	46.2
20-29	62.8	59.9	65.7
30+	60.8	56.7	64.9
Education Level			
Less than High School	52.1	45.6	58.5
High School or Higher	60.9	58.5	63.3
Race/Ethnicity			
Non-Hispanic White	63.1	60.7	65.5
Non-Hispanic Black	46.4	38.9	53.9
Hispanic	42.4	28.6	56.1
Other	36.6	23.6	49.6
Marital Status			
Married	58.6	55.8	61.5
Unmarried	60.3	56.4	64.3
Residence			
Urban	61.0	58.1	63.8
Rural	54.7	51.2	58.2
Prepregnancy Health			
Insurance Status			
Private Insurance	64.3	61.4	67.2
Medicaid	43.8	37.1	50.6
No Insurance	57.9	53.7	62.1

DEFINITION. Alcohol use in the three months before pregnancy is defined based on Questions 39a and 39b:

Alcohol use before pregnancy is particularly important because many fetal developmental milestones occur even before the woman is aware of the pregnancy. Reducing the percentage of women who drink alcohol before pregnancy to 43.6 percent is a HP 2020 objective.³ More than half (59.3 percent) of Missouri women reported drinking in the three months before pregnancy with higher proportions among women who were aged ≥20 years, at least high school educated, Non-Hispanic White, living in urban areas and covered by private insurance or without insurance before pregnancy.

⁻ response of less than one drink or one drink or more a week to Question 39a: "During the *3 months before* you got pregnant, how many alcoholic drinks did you have in an average week?"

⁻ or response "I didn't have 5 drinks or more in 1 sitting" or response of one time or more to Question 39b: "During the *3 months before* you got pregnant, how many times did you drink 5 alcoholic drinks or more in one sitting?"

Alcohol Use During the Last Three Months of Pregnancy

Survey Questions 40a & 40b

Percent of women who reported drinking alcohol in the last three months of pregnancy

Maternal Characteristics	Percent	95% (CI
Overall	5.8	4.6	6.9
Age (Years)			
<20	2.4	0.4	4.4
20-29	5.6	4.1	7.1
30+	7.3	5.1	9.6
Education Level			
Less than High School	5.1	1.9	8.2
High School or Higher	5.8	4.6	7.1
Race/Ethnicity			
Non-Hispanic White	6.1	4.8	7.4
Non-Hispanic Black	5.6	1.9	9.3
Hispanic	1.7	0.0	3.7
Other	2.4	0.0	6.9
Marital Status			
Married	6.3	4.8	7.8
Unmarried	4.9	3.1	6.7
Residence			
Urban	6.7	5.2	8.2
Rural	3.0	1.8	4.2
Prenatal Care Payer			
Private Insurance	7.2	5.4	9.0
Medicaid	3.8	2.4	5.1
Self Pay or Other	11.3	2.9	19.7

DEFINITION. Alcohol use in the last three months of pregnancy is defined based on Questions 40a and 40b:

Alcohol use during pregnancy is associated with miscarriage, stillbirth and preterm delivery.^{5,6} Another serious implication of alcohol use during pregnancy is the potential for fetal alcohol spectrum disorders, which last a lifetime and may cause physical and cognitive difficulties.⁵ Decreasing the proportion of women who consume alcohol during pregnancy is a HP 2020 objective with a target of 1.7 percent.³ Missouri does not meet this objective with the percent of women who used alcohol in the last three months of pregnancy at 5.8 percent. Women who were aged ≥20 years, Non-Hispanic White or Black, married, living in urban areas and covered by private insurance were more likely to consume alcohol in the last there months of pregnancy.

⁻ response of less than one drink or one drink or more a week to Question 40a: "During the *last 3 months* of your pregnancy, how many alcoholic drinks did you have in an average week?"

⁻ or response "I didn't have 5 drinks or more in 1 sitting" or response of one time or more to Question 40b: "During the *last 3 months* of your pregnancy, how many times did you drink 5 alcoholic drinks or more in one sitting?"

Physical Abuse Before Pregnancy

Survey Questions 42a & 42b

Percent of women who reported physical abuse before pregnancy

Maternal Characteristics	Percent	95% (CI
Overall	7.2	5.9	8.4
Age (Years)			
<20	6.0	2.2	9.8
20-29	8.9	7.1	10.7
30+	4.3	2.5	6.1
Education Level			
Less than High School	10.6	6.6	14.7
High School or Higher	6.0	4.8	7.2
Race/Ethnicity			
Non-Hispanic White	7.1	5.7	8.5
Non-Hispanic Black	8.6	4.7	12.6
Hispanic	4.5	0.3	8.7
Other	5.9	0.2	11.6
Marital Status			
Married	4.0	2.8	5.2
Unmarried	11.9	9.4	14.5
Residence			
Urban	6.7	5.2	8.3
Rural	8.4	6.3	10.4
Prepregnancy Health			
Insurance Status			
Private Insurance	3.8	2.5	5.1
Medicaid	13.0	8.7	17.2
No Insurance	10.2	7.6	12.9

DEFINITION. Physical abuse before pregnancy is defined as response "Yes" to either question 42a or 42b.

Question 42a: "During the 12 months before you got pregnant, did an ex-husband or ex-partner push, hit, slap, kick, choke or physically hurt you in any other way?"

Question 42b: "During the *12 months before* you got pregnant, were you physically hurt in any way by your husband or partner?"

Physical abuse before pregnancy is associated with a range of negative pregnancy outcomes including hypertension, vaginal bleeding, severe nausea/vomiting/dehydration, infections, preterm birth and delivery of a low birth weight infant, among others. Approximately 7 percent of women in Missouri reported physical abuse in the three months before pregnancy with higher percentages among women who were aged 20-29 years, less than high school educated, Non-Hispanic Black or White, unmarried, living in rural areas and without private insurance.

Physical Abuse During Pregnancy

Survey Questions 43a & 43b

Percent of women who reported physical abuse during pregnancy

Maternal Characteristics	Percent	95% (CI
Overall	4.8	3.7	5.9
Age (Years)			
<20	7.9	3.4	12.4
20-29	5.7	4.2	7.1
30+	2.0	0.7	3.2
Education Level			
Less than High School	8.5	4.8	12.1
High School or Higher	3.8	2.8	4.7
Race/Ethnicity			
Non-Hispanic White	4.3	3.3	5.4
Non-Hispanic Black	9.1	4.7	13.6
Hispanic	-	-	-
Other	2.8	0.0	5.7
Marital Status			
Married	2.4	1.4	3.4
Unmarried	8.4	6.3	10.6
Residence			
Urban	4.4	3.1	5.7
Rural	6.0	4.3	7.8
Prenatal Care Payer			
Private Insurance	1.1	0.5	1.7
Medicaid	8.6	6.5	10.6
Self Pay or Other	3.5	0.0	8.5

DEFINITION. Physical abuse during pregnancy is defined as response "Yes" to either question 43a or 43b asking about physical abuse by an ex-husband/partner or husband/partner during pregnancy.

NOTE. "-" not reported for unweighted sample size of denominator less than 42.

Physical abuse during pregnancy has serious consequences including increased risk for fetal and maternal morbidity and mortality. Potential mechanisms include physical trauma, stress, neglect, high-risk behaviors and inadequate prenatal care. A slightly lower percentage of women reported abuse during pregnancy (4.8 percent) compared to the three months before pregnancy (7.2 percent). The prevalence rates of physical abuse during pregnancy were higher among women who were aged <20 years, less than high school educated, Non-Hispanic Black, unmarried, living in rural areas and covered by Medicaid for prenatal care.

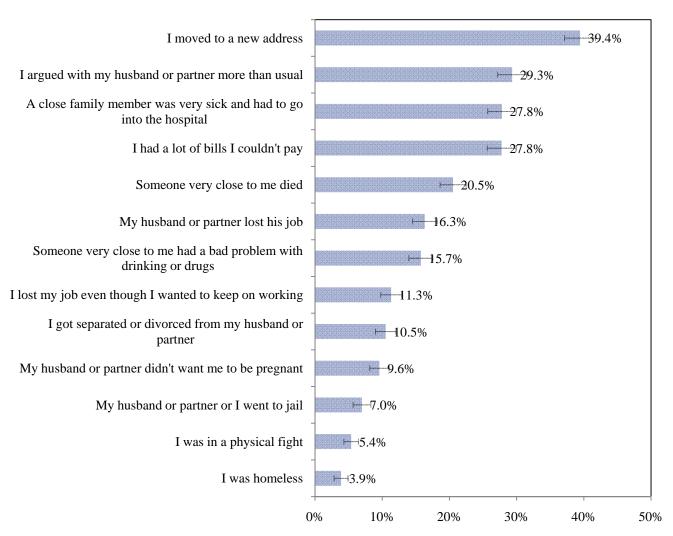
Missouri Mothers Say:

"Violence was a big part of my pregnancy....Violence and pregnancy do not go well together. That is why I am going to go through this one alone."

Maternal Stressors Before and During Pregnancy

Survey Question 41

Percent of women who reported experiencing one of the following events in the 12 months before delivery



Stress has detrimental effects for the mother and the fetus during pregnancy including increased risk for preterm birth, low birth weight and postpartum depression. ¹⁰⁻¹³ Large percentages of women experienced at least one of the life events listed above with over 25 percent who had a close family member who was very sick, moved to a new address, argued with their husband/partner more than usual or had a lot of bills they couldn't pay.

Missouri Mothers Sav:

"Mental health is very important for pregnant women, also financial help and stability. Women who are pregnant lose their job and have trouble getting new jobs because they are pregnant. There should be more support groups."

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Section 7. Oral Health



Dental Problem During Pregnancy

Survey Question 81a

Percent of women who reported needing to see a dentist during pregnancy

Maternal Characteristics	Percent	95% (CI
Overall	29.5	27.3	31.7
Age (Years)			
<20	24.5	18.1	31.0
20-29	32.8	29.9	35.7
30+	25.1	21.4	28.9
Education Level			
Less than High School	38.9	32.6	45.2
High School or Higher	27.5	25.3	29.8
Race/Ethnicity			
Non-Hispanic White	28.9	26.6	31.2
Non-Hispanic Black	35.9	28.6	43.3
Hispanic	20.0	9.5	30.5
Other	29.5	16.7	42.3
Marital Status			
Married	24.7	22.2	27.2
Unmarried	36.7	32.9	40.5
Residence			
Urban	28.2	25.5	30.9
Rural	33.2	29.8	36.5
Prenatal Care Payer			
Private Insurance	19.4	16.7	22.1
Medicaid	38.5	35.1	42.0
Self Pay or Other	21.4	10.6	32.2

DEFINITION. Having a dental problem is defined as response "Yes" to Question 81: "This question is about the care of your teeth during your most recent pregnancy:" part a. "I needed to see a dentist for a problem."

Periodontal disease is the most prevalent oral condition associated with pregnancy. An estimated 60-75 percent of pregnant women have gingivitis. Nearly one-third of Missouri women (29.5 percent) had a dental problem during pregnancy. The percentage with a dental problem was slightly higher among women who were less than high school educated, Non-Hispanic Black and unmarried. A much higher proportion of women with Medicaid had a dental problem during pregnancy compared to women with private insurance, self-pay or other as their prenatal payer.

Missouri Mothers Say:

"Getting in to see a dentist while I was pregnant was impossible. No one would return my calls. I am still unable to see a dentist. Some dental work has to wait until after you have the baby and in my opinion Medicaid doesn't cover you long enough after having the baby."

Dental Visit During Pregnancy

Survey Question 81b

Percent of women who reported not receiving dental care during pregnancy

Maternal Characteristics	Percent	95% (CI
Overall	63.9	61.7	66.2
Age (Years)			
<20	79.3	73.3	85.3
20-29	66.9	64.0	69.7
30+	52.4	48.2	56.6
Education Level			
Less than High School	74.7	68.9	80.5
High School or Higher	61.3	58.9	63.8
Race/Ethnicity			
Non-Hispanic White	61.1	58.7	63.6
Non-Hispanic Black	75.7	69.3	82.0
Hispanic	79.1	67.8	90.4
Other	65.5	53.0	78.0
Marital Status			
Married	57.7	54.9	60.6
Unmarried	73.3	69.8	76.8
Residence			
Urban	61.9	59.0	64.7
Rural	69.7	66.4	72.9
Prenatal Care Payer			
Private Insurance	50.5	47.2	53.8
Medicaid	75.6	72.6	78.6
Self Pay or Other	78.1	67.5	88.7

DEFINITION. Not receiving dental care is defined as response to "No" to Question 81: "This question is about the care of your teeth during your most recent pregnancy:" part b. "I went to a dentist or dental clinic."

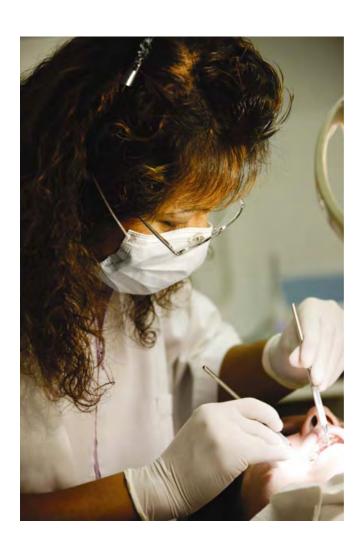
The American Academy of Periodontology recommends preventive dental care, periodontal examination and needed treatment be provided during pregnancy. Nearly two-thirds of Missouri women (63.9 percent) reported not receiving dental care during pregnancy. A higher percentage of women with less than a high school education reported dental problems during pregnancy, but a higher percentage of women in this group also reported not receiving dental care. The same pattern exists for race/ethnicity, marital status, residence and prenatal care payer.

Missouri Mothers Say:

"Getting in to see a dentist while I was pregnant was impossible. No one would return my calls. I am still unable to see a dentist. Some dental work has to wait until after you have the baby and in my opinion Medicaid doesn't cover you long enough after having the baby."

References

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Appendix. PRAMS Phase V Questionnaire



Pounds OR Kilos	Month Day Year 5. Just before you got pregnant with your new	4. What is your date of birth?	4 to 6 times a weekEvery day of the week	☐ I didn't take a multivitamin or a prenatal vitamin at all ☐ 1 to 3 times a week	vitamin? These are pills that contain many different vitamins and minerals.	3. During the <i>month before</i> you got pregnant with your new baby, how many times a week did you take a multivitamin or a prenatal	□ No Yes	2. Just before you got pregnant, were you on Medicaid?	□ No □ Yes	1. Just before you got pregnant, did you have health insurance? Do not count Medicaid.	pregnant with your new baby. Please check the box next to your answer.	First, we would like to ask a few questions
		Years old	10. How old were you when you got pregnant with your first baby?	□ No □ Yes	9. Was the baby <i>just before</i> your new one born <i>more</i> than 3 weeks before its due date?	☐ No ☐ Yes	8. Did the baby born just before your new one weigh 5 pounds, 8 ounces (2.5 kilos) or less at birth?	☐ No → Go to Question 10 ☐ Yes		OR Centimeters 7 Refere you got pregnant with your new	Feet Inches	6. How tall are you without shoes?

baby, were you or your husband or partner doing anything to keep from getting pregnant? (Some things people do to keep from getting pregnant include not having sex at certain times [rhythm] or withdrawal, and using birth control methods such as the pill, condoms, cervical ring, IUD, having their tubes tied or their partner having a vasectomy.) No Yes Go to Question 16	13. When you got pregnant with your new baby, were you trying to get pregnant? □ No □ Yes ——— Go to Question 17	 ☐ Less than 1 year ☐ 1 year to less than 2 years ☐ 2 years to less than 3 years ☐ 3 years to less than 4 years 	12. How much later did you want to become pregnant?	If you wanted to be pregnant later, answer Question 12. Otherwise, go to Question 13.	 ☐ I wanted to be pregnant sooner ☐ I wanted to be pregnant later ☐ I wanted to be pregnant then ☐ I didn't want to be pregnant then ☐ or at any time in the future 	pregnant with your <i>new</i> baby, how did you feel about becoming pregnant? Check one answer	The next questions are about the time when you got pregnant with your new baby. Thinking back to just before you got
		If you or your husband or partner was not doing anything to keep from getting pregnant, go to Question 18.		anything ☐ Other → Please tell us:	☐ I had side effects from the birth control method I was using ☐ I had problems getting birth control when I needed it ☐ I thought my husband or partner or I was sterile (could not get pregnant at all) ☐ My husband or partner didn't want to use	I didn't mind if I go I thought I could no time	15. What were your or your husband's or partner's reasons for not doing anything to keep from getting pregnant? Check all that apply

The next questions are about the prenatal care you received during your most recent pregnancy. Prenatal care includes visits to a doctor, nurse, or other health care worker before your baby was born to get checkups and advice about pregnancy. (It may help to look at the calendar when you answer these questions.)	18. How many weeks or months pregnant were you when you were sure you were pregnant? (For example, you had a pregnancy test or a doctor or nurse said you were pregnant.) Weeks OR Months ☐ I don't remember	19. How many weeks or months pregnant were you when you had your first visit for prenatal care? Do not count a visit that was only for a pregnancy test or only for WIC (the Special Supplemental Nutrition Program for Women, Infants, and Children). Weeks OR Months	 □ I didn't go for prenatal care 20. Did you get prenatal care as early in your pregnancy as you wanted? □ No □ Yes □ I didn't want prenatal □ care Go to Page 4, Question 22 	
hal hin	nice a monut (ince every 3 mc every 3 mc Provera®) ceptive patch agm, cervical al ring (Nuval nichoding Mire nichod or nig awal (pulling ving sex (abst	If you were not trying to get pregnant when you got pregnant with your new baby, go to Question 18.	 17. Did you receive treatment from a doctor, nurse, or other health care worker to help you get pregnant with your new baby? (This may include infertility treatments such as fertility-enhancing drugs or assisted reproductive technology.) □ No □ Yes 	

21.	Here is a list of problems some women can	23. How was your prenatal care paid for?
	have getting prenatal care. For each item,	Check all that apply
	circle \mathbf{Y} (Yes) if it was a problem for you during your most recent pregnancy or circle \mathbf{N} (No) if it was not a problem or did not apply to you.	☐ Medicaid ☐ Personal income (cash, check, or credit
a.b.c.d.e.f.g.h.i.	I couldn't get an appointment when I wanted one	card) Health insurance or HMO (including insurance from your work or your husband's work) I still owe Other → Please tell us: 24. During any of your prenatal care visits, did a doctor, nurse, or other health care worker talk with you about any of the things listed below? Please count only discussions, not reading materials or videos. For each item, circle Y (Yes) if someone talked with you about it or circle N (No) if no one talked with you about it.
j.	Other N Y Please tell us:	No Yes
	you did not go for prenatal care, go to puestion 27.	a. How smoking during pregnancy could affect my baby
22.	Where did you go most of the time for your prenatal visits? Do not include visits for	e. Birth control methods to use after my pregnancy
	WIC. Check one answer	during my pregnancy
	 ☐ Hospital clinic ☐ Health department clinic ☐ Private doctor's office or HMO clinic ☐ Community Clinic ☐ Other → Please tell us: 	affect my baby

5	28. Have you ever heard or read that taking the vitamin folic acid can help prevent some birth defects?	□ No □ Yes	The next questions are about your most recent pregnancy and things that might	have happened during your pregnancy.	29. During your most recent pregnancy, were you on WIC (the Special Supplemental Nutrition Program for Women, Infants, and	On No Ses Go to Page 6, Question 31 Yes	30. When you went for WIC visits during your most recent pregnancy, did you receive information on breastfeeding?	□ No				
	25. We would like to know how you felt about the prenatal care you got during your most recent pregnancy. If you went to more than	one place for prenatal care, answer for the place where you got most of your care. For each item, circle Y (Yes) if you were satisfied or circle N (No) if you were not satisfied.		a. The amount of time you had	your visits	your visits N Y c. The advice you got on how to take care of yourself N Y		26. During any of your prenatal care visits, did a doctor, nurse, or other health care worker talk with you about how much weight you should gain during your pregnancy?	□ No □ Yes	27. At any time during your most recent pregnancy or delivery, did you have a test for HIV (the virus that causes AIDS)?	□ No □ Yes □ Idon't know	

39a. During the 3 months before you got pregnant, how many alcoholic drinks did you have in an average week?	 □ 14 drinks or more a week □ 7 to 13 drinks a week □ 1 to 6 drinks a week □ 1 to 3 drinks a week □ Less than 1 drink a week □ I didn't drink then 	39b. During the 3 months before you got pregnant, how many times did you drink 5 alcoholic drinks or more in one sitting?	 ☐ 6 or more times ☐ 4 to 5 times ☐ 2 to 3 times ☐ 1 time ☐ I didn't have 5 drinks or more in 1 sitting ☐ I didn't drink then 	40a. During the <i>last 3 months</i> of your pregnancy, how many alcoholic drinks did you have in an average week?	 □ 14 drinks or more a week □ 7 to 13 drinks a week □ 1 to 6 drinks a week □ 1 to 3 drinks a week □ Less than 1 drink a week □ I didn't drink then 	 40b. During the last 3 months of your pregnancy, how many times did you drink 5 alcoholic drinks or more in one sitting? □ 6 or more times □ 1 to 5 times □ 1 time □ 1 didn't have 5 drinks or more in 1 sitting □ I didn't drink then
35. In the <i>last 3 months</i> of your pregnancy, how many cigarettes did you smoke on an average day? (A pack has 20 cigarettes.)	 41 cigarettes or more 21 to 40 cigarettes 11 to 20 cigarettes 6 to 10 cigarettes 1 to 5 cigarettes Less than 1 cigarette None (0 cigarettes) 	36. How many cigarettes do you smoke on an average day now? (A pack has 20 cigarettes.)	 41 cigarettes or more 21 to 40 cigarettes 11 to 20 cigarettes 6 to 10 cigarettes 1 to 5 cigarettes Less than 1 cigarette None (0 cigarettes) 	37. Does your husband or partner smoke inside your house?	38. Have you had any alcoholic drinks in the past 2 years? (A drink is 1 glass of wine, wine cooler, can or bottle of beer, shot of liquor, or mixed drink.)	□ No → Go to Page 8, Question 41 □ Yes

Pregnancy can be a difficult time for some
women. The next question is about things
that may have happened before and during
your most recent pregnancy.

you	ir most recent pregnancy.	
41.	This question is about things that may happened during the 12 months before ynew baby was born. For each item, circle Y (Yes) if it happened to you or circle N (I if it did not. (It may help to use the calend	our e No)
	No	Yes
a.	A close family member was very sick and had to go into the hospital $\ldots N$	Y
b.	I got separated or divorced from my	3.7
	husband or partner	Y
C.	I moved to a new address N	Y Y
d.	I was homeless	
e. f.	My husband or partner lost his job N I lost my job even though I wanted	Y
ı.	to go on workingN	Y
~		1
g. h.	I argued with my husband or partner more than usual	Y
	didn't want me to be pregnantN	Y
i.	I had a lot of bills I couldn't payN	Y
j. k.	I was in a physical fight	Y
1.	went to jail	Y
	problem with drinking or drugs N	Y
m.	Someone very close to me died N	Y
duı	e next questions are about the time ring the 12 months before you got egnant with your new baby.	
10		
42a	. During the 12 months before you got pregnant, did an ex-husband or ex-par push, hit, slap, kick, choke, or physical hurt you in any other way?	
	□ No □ Yes	

42b. During the 12 months before you got pregnant, were you physically hurt in any way by your husband or partner?
□ No □ Yes
The next questions are about the time during your most recent pregnancy.
43a. During your most recent pregnancy, did an ex-husband or ex-partner push, hit, slap, kick, choke, or physically hurt you in any other way?
□ No □ Yes
43b. During your most recent pregnancy, were you physically hurt in any way by your husband or partner?
□ No □ Yes
The next questions are about your labor and delivery. (It may help to look at the calendar when you answer these questions.)
44. When was your baby due?
Month Day Year
Month Day Tear
45. When did you go into the hospital to have your baby?
Month Day Year
☐ I didn't have my baby in a hospital

50. After your baby was born, how long did he or she stay in the hospital?	 Less than 24 hours (less than 1 day) 24 to 48 hours (1 to 2 days) 3 days 4 days 5 days 6 days or more My baby was not born in a hospital My baby is still in the 		52. Is your baby living with you now? □ No → Go to Page 12, Question 69 □ Yes 53. Did you ever breastfeed or pump breast milk to feed your new baby after delivery? □ No □ No □ Yes → Go to Page 10, Question 55	 54. What were your reasons for not breastfeeding your new baby? ☐ My baby was sick and could not breastfeed ☐ I was sick or on medicine ☐ I had other children to take care of ☐ I had too many household duties ☐ I didn't like breastfeeding ☐ I didn't want to be tied down ☐ I was embarrassed to breastfeed ☐ I went back to work or school ☐ I wanted my body back to myself ☐ Other Please tell us:
46. When was your baby born?	Month Day Year 47. When were you discharged from the hospital after your baby was born? (It may help to use the calendar.)	Month Day Year ☐ I didn't have my baby in a hospital 48. How was your delivery paid for? ☐ Check all that apply	 □ Medicaid □ Personal income (cash, check, or credit card) □ Health insurance or HMO (including insurance from your work or your husband's work) □ I still owe □ Other — ➤ Please tell us: 	The next questions are about the time since your new baby was born. 49. After your baby was born, was he or she put in an intensive care unit? □ No □ Yes □ I don't know

65. How many times has your new baby been to a doctor or nurse for a well-baby checkup? (It may help to use the calendar.)	66. Did any of these things keep your baby from having a well-baby checkup? Check all that apply	 I didn't have enough money or insurance to pay for it I had no way to get my baby to the clinic or office I didn't have anyone to take care of my other children I couldn't get an appointment 	☐ My baby was too sick to go for routine care ☐ Other → Please tell us: 67. How many times has your new baby gone for care when he or she was sick?	Times ☐ None — → Go to Page 12, Question 69	
About how many hours a day, on average, is your new baby in the same room with someone who is smoking?	Less than 1 hour a day My baby is never in the same room with someone who is smoking	 61. How do you most often lay your baby down to sleep now? ☐ Check one answer ☐ On his or her side ☐ On his or her back ☐ On his or her stomach 	How often does your new baby sleep in the same bed with you or anyone else? Always Often Sometimes Rarely Never	Was your new baby seen by a doctor, nurse, or other health care worker during the first week after he or she left the hospital? □ No □ Yes Has your new baby had a well haby checking?	(A well-baby checkup is a regular health visit for your baby usually at 2, 4, or 6 months of age.) No Go to Question 66 Yes

68.	Where have you taken your new baby when he or she was sick and needed care?			If you or your husband or partner is not doing anything to keep from getting pregnant now,					
			Check <u>all</u> that apply		Question 72.	,			
69.		Health department clinic Hospital emergency room Private doctor's office			71. What kind of birth control are you or your husband or partner using <i>now</i> to keep from getting pregnant? Check <u>all</u> that apply				
	(Sor preg [rhy met]	Are you or your husband or partner doing anything now to keep from getting pregnant? (Some things people do to keep from getting pregnant include not having sex at certain times [rhythm] or withdrawal, and using birth control methods such as the pill, condoms, cervical ring, IUD, having their tubes tied, or their			Vasectomy (male s Pill Condoms Shot once a month Shot once every 3 (Depo-Provera®) Contraceptive pate Diaphragm, cervice	(Lunelle®) months h (OrthoEvra®)			
70.	part Wh par	partner having a vasectomy.) No			IUD (including Mi	rena®) natural family g out) stinence)			
	,		Check <u>all</u> that apply						
		I can't pay for birth I am pregnant now	ant birth control ener doesn't want to get pregnant (sterile)						

was born, what was your total household income before taxes? Include your income, your husband's or partner's income, and any other income you may have used. (All information will be kept private and will not affect any services you are now getting.)	Check one answer Less than \$10,000 \$10,000 to \$14,999 \$20,000 to \$24,999 \$25,000 to \$34,999 \$35,000 to \$49,999 \$55,000 to \$49,999	76. During the 12 months before your new baby was born, how many people, including yourself, depended on this income? People	The next few questions are on a variety of topics. 77. During your most recent pregnancy, did a doctor, nurse, or other health care worker tell you that you had a urinary tract infection (UTI), a sexually transmitted disease (STD), or any vaginal infection, including bacterial vaginosis or Group B Strep (Beta Strep)? □ No → Go to Page 14, Question 79a □ Yes
72. After your new baby was born, did a doctor, nurse or other health care worker talk with you about using birth control? □ No □ Yes	73. Since your new baby was born, have you had a postpartum checkup for yourself? (A postpartum checkup is the regular checkup a woman has after she gives birth.) □ No □ Yes The next few questions are about the time during the 12 months before your new baby	was born. 74. During the 12 months before your new baby was born, what were the sources of your household's income? [Check all that apply]	 □ Paycheck or money from a job □ Money from family or friends □ Money from a business, fees, dividends, or rental income □ Aid such as Temporary Assistance for Needy Families (TANF), welfare, WIC, public assistance, general assistance, food stamps, or Supplemental Security Income □ Unemployment benefits □ Child support or alimony □ Social security, workers' compensation, disability, veteran benefits, or pensions □ Other — Please tell us:

☐ Often ☐ Sometimes ☐ Rarely ☐ Never	have you had little interest or little pleasure in doing things? Always	□ Always □ Often □ Sometimes □ Rarely □ Never	79a. Since your new baby was born, how often have you felt down, depressed, or hopeless?	☐ Bacterial vaginosis ☐ Trichomoniasis (Trich) ☐ Yeast infections ☐ Urinary tract infection (UTI) ☐ Other — → Please tell us:		78. What disease or infection were you told you had? Check all that apply
84. What is today's date? Month Day Year		 □ No → Go to Question 84 □ Yes 83. When did you have your teeth cleaned by a dentist or dental hygienist? For each of the three time periods, circle Y (Yes) if you had your teeth cleaned then or circle N (No) if you 	82. Have you <i>ever</i> had your teeth cleaned by a dentist or dental hygienist?	a. I needed to see a dentist for a problem	 □ Yes 81. This question is about the care of your teeth during your most recent pregnancy. For each item, circle Y (Yes) if it is true or circle N (No) if it is not true. 	80. Since your new baby was born, did you seek help for depression from a doctor, nurse or other health care worker?

Please use this space for any additional comments you would like to make about the health of mothers and babies in Missouri.

Thanks for answering our questions!

Your answers will help us work to make Missouri mothers and babies healthier.

Notes



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